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ILLINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

News Supervisor: Miss Mildred Wyatt
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology
Day Phone: CAlumet 5-9600, Extension 2385
Night Phone: DAnube 6-1965
For further information on this release, contact:
Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

An exhibit of brass and copper objects from all over the world will be display at Illinois Institute of Technology, Chicago, starting Wednesday, Oct. 9.

The Sidney and Julia Teller International Brass and Copper collection, which has been presented to Illinois Tech, contains more than 1,500 pieces of copper and brass, ranging from brass knuckles to Marie Antoinette's tea kettle.

The exhibit, commemorating the late Mrs. Julia Pines Teller, will be on display in the lobby of IIT's Metallurgical and Chemical Engineering building, 10 W. 33rd St.

Teller will be present at the exhibit from 2 to 5:30 p.m. and 7 to 9 p.m. Wednesday.

Featured in the collection are a lacy brass plate from Persia, a small crown from Mexico, a Philippine ankle bracelet, tiny enameled teapots, and a "holy bowl" which is a water puzzle. Candlesticks of all shapes and sizes, a variety of small animals, and a rare goddess statue from Tibet are included in the display.

Marie Antoinette's tea kettle was discovered by a French family, from whom Teller purchased the elaborately-flowered work. An old mortar's origin remained a mystery until its twin was spotted in one of Velazquez' paintings.

-more-

MAILED: 10/1/57

The objects have been gathered from more than 40 countries, including Chile, Egypt, Mexico, Switzerland, Israel, Syria, and ancient China and Palestine, according to Teller.

Sparked by an interest in foreign handiwork, Teller started the collection in 1910 as an offshoot of social work on Chicago's west side.

The Tellers, observers at the United Nations Education, Scientific, and Cultural Organization (UNESCO), have explained their collection on various radio and television programs in the United States, Italy, and Mexico.

Teller also has lectured on the collection in France and Spain. In 1952, the Mexican Department of Public Information conferred a "Diploma of Honor" on Teller, the first United States citizen to be so honored.

He attended Armour Institute of Technology, predecessor to Illinois Tech.

Teller lives at 1642 E. 56th St., Chicago.

-mmw-

news about the

n e c National Electronics Conference
HOTEL SHERMAN OCTOBER 7-9, 1957 CHICAGO, ILLINOIS

The Nation's Leading Forum On Electronic Research, Development, and Application

release:

FROM: FRANK A. JUDD
PUBLIC RELATIONS DEPARTMENT
ILLINOIS INSTITUTE OF TECHNOLOGY
CHICAGO 16 — CALUMET 5-9600

Oct. 1, 1957

MEMORANDUM TO EDITORS:

Following is a summary of the program of the 13th annual National Electronics Conference to be held Monday, Tuesday, and Wednesday, Oct. 7, 8, and 9, at the Hotel Sherman, Chicago.

Luncheon meetings--

Monday, 12:30 p.m., Bernard Shaw room: Dr. Harold V. Gaskill, vice president, Collins Radio Co., will discuss the future of the electronics industry.

Two awards, the NEC Annual Award and the NEC Award of Merit, will be presented. The former is for a paper presented at the preceding year's conference, and is awarded on the basis of scholarship, originality, importance, and clarity. The Award of Merit may be given to the author of a paper presented at any previous conference and is for a paper in which is introduced developments of a new and revolutionary character capable of significantly influencing an electronic field, or of opening a new major area of electronic research.

Tuesday, 12:30 p.m., Bernard Shaw room: Gen. Thomas S. Power, recently named commander of the Strategic Air Command, will speak on "The Contributions of Electronics to the Strategic Air Command."

Arrangements can be made to interview General Power briefly following his address. If interested, please communicate with the undersigned at the telephone number shown below or at the conference press room on Monday or Tuesday.

Wednesday, 12:30 p.m., Bal Tabarin room: The speaker will be Edward McFaul of Chicago; his subject, "How to Keep Your Foot Out of Your Mouth."

Approximately 100 papers, covering a broad range of electronic research and development, will be presented at 23 technical sessions. Technical sessions will begin at 9:30 a.m. and 2:30 p.m. on each of the three days.

-more-

10/1/57

NEC program--add 1

In addition, there will be approximately 250 exhibits by the nation's leading producers of electronic equipment.

Limited numbers of many of the technical papers will be available in the press headquarters in room No. 106.

Press representatives are invited to make use of special conference registration facilities in the press room.

Please let me know if I can be of any assistance.

Frank A. Judd
Chairman, Publicity Committee
CAlumet 5-9600, Ext. 2391

vs from
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FOR RELEASE: Immediate

Chicago--Illinois Institute of Technology's Techawks will play a 20-game schedule during the 1957-58 basketball season.

The non-conference schedule will begin against Elmhurst College Nov. 30 and will close with Aurora College Feb. 26, according to Coach Ed Glancy.

All home games will be played at 8 p.m. in the Illinois Tech gym, 32nd and Dearborn Sts. Following is the complete schedule.

Nov.	30	Elmhurst College	Home
Dec.	6	Illinois Tech Alumni	Home
	10	Lewis College	Home
	13	Concordia Teachers College (Homecoming game)	Home
	17	Chicago Teachers College (South)	Home
Jan.	4	Loras College	Home
	8	University of Illinois (Chicago)	Home
	11	Concordia Teachers College	Away
	25	University of Chicago	Away
	28	Lewis College	Away
Feb.	1	St. Norbert's College	Home
	4	Loras College	Away
	7	University of Chicago	Home
	10	St. Ambrose College	Home
	12	Elmhurst College	Away
	14	Earlham College	Home

MAILED: 10/2/57

-more-

Basketball schedule--add 1

Feb. 15	St. Norbert's College	Away
18	Chicago Teachers College (South)	Away
21	University of Illinois (Chicago)	Away
26	Aurora College	Home

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Darrell Vincent, Ext. 2384

FOR RELEASE: AM FRIDAY, OCT. 4, 1957

A thermometer device which can help aircraft increase their ranges and save fuel has been developed at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Developed for the Air Force's Air Research and Development Command, the thermometer can assist aircraft in locating jet air streams and the position of maximum velocity in them by giving immediate readings on temperature changes.

The device is a "vortex thermometer," which will give pilots direct true free air temperature readings accurate to plus or minus 1 degree farenheit while traveling at high speeds, explained Jack C. Hedge, associate engineer in the ARF propulsion and fluid mechanics research department.

Jet streams are fast, high altitude currents of air traveling from west to east which often boost ground speeds of aircraft by as much as 50 per cent.

The "free ride" they provide planes will increase their ranges and result in substantial fuel savings, Hedge said. Commerical planes using the jet streams from Tokyo to Honolulu, for example, have reported up to 1,200-pound fuel savings.

Other methods of locating the jet streams by temperature changes are indirect, he said, because they involve correcting temperature readings to compensate for the aerodynamic heating effect produced by high speeds.

MAILED: 10/2/57

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The vortex tube thermometer automatically compensates for the heating effect and transmits true free air temperature directly to an indicator in the cockpit.

Other possibilities for the thermometer exist in high speed weather observation planes. The accurate measurements it provides should assist in predicting weather conditions, Hedge said.

The device developed by Armour scientists uses a uniflow type vortex tube--a cylindrical pipe which creates a whirlpool, or vortex, when air enters the tube at an angle to the opening.

The vortex creates a cold region in the center of the tube which compensates for the high speed heat.

In laboratories at the Foundation and at the Ames Aeronautical Laboratory of the National Advisory Committee on Aeronautics, the thermometer was found to be effective at simulated altitudes up to 40,000 feet and speeds up to Mach number 1.1.

-mmw-

news about the

n e c National Electronics Conference
HOTEL SHERMAN OCTOBER 7-9, 1957 CHICAGO, ILLINOIS

The Nation's Leading Forum On Electronic Research, Development, and Application

release: TUESDAY PMs, Oct. 8, 1957

FROM: FRANK A. JUDD
PUBLIC RELATIONS DEPARTMENT
ILLINOIS INSTITUTE OF TECHNOLOGY
CHICAGO 16 — CALUMET 5-9600

Chicago, Oct. 8--As the advent of missile warfare reduces the warning time of attack to a matter of minutes, the latest electronic communications aids will be vital in getting America's air power into the air to counterattack before an aggressor can immobilize them

This was stated here today (Oct. 8) by Gen. Thomas S. Power, commander-in-chief of the Strategic Air Command.

Electronics, the SAC commander told a luncheon of the National Electronics Conference at the Hotel Sherman, is the key element in enabling the SAC to cope with continuous advances in weapons technology.

In addition to communications, the general added, electronics serves the SAC in other ways, including bombing and navigations systems, fire control systems, and other airborne devices.

A modern jet bomber may require as many as 2,000 electronic tubes, he said.

Power, who succeeded Gen. Curtis E. LeMay as commander of SAC, said electronics also contributes to a large variety of ground and support operations such as weather forecasting and transmission of weather data; in conducting war games indispensible in planning for contigencies, and in many other operations.

He described SAC's subterranean control center as "a marvel of electronics."

"The magnitude of electronics' contribution to the Strategic Air Command," Power said, "stems essentially from two factors--the size and scope of this long-range nuclear striking force which represents an investment of over $17 billion, and the character of its mission.

"The primary objective of SAC's mission is to deter aggression through its capability of mounting immediate and simultaneous counterattacks designed to destroy the aggressor's war-making capacity.

"The accomplishment of this global mission entails a far-flung system of bases and aircraft whose instantaneous and effective employment in case of emergency depends on what is undoubtedly the most extensive and complex communications network in existence."

Dependency on electronics also has created numerous operational problems, the four-star officer added.

"In order to fully exploit the advances made in electronics during recent years," he explained, "it is, therefore, necessary to consolidate these gains by devoting more attention to the operations problems." He said this applies especially to "reliability and maintainability which require much further improvement to permit the effective accomplishment of SAC's mission."

Other problem areas, he continued, pertain to the need for greater self-sufficiency of maintenance facilities; reduction in warm-up and check-out requirements; better compatibility of components supplied by different manufacturers; continued reduction in weight and cost; less susceptibility to severe environmental conditions, and requirements for better test and training equipment.

SAC's principal asset, according to Power, is its organization of highly experienced professionals which is flexible enough to be adaptable to any new weapons or techniques, no matter how revolutionary.

"But to cope effectively with the continuous advancements in weapons technology," he said, "these men must be given tools which are not only commensurately advanced but also suitable for operational use under the strigent conditions ensuing from the scope and character of SAC's vital mission. Few, if any of these tools would be possible without the contribution of eletronics."

The National Electronics Conference is sponsored annually by American Institute of Electrical Engineers, Illinois Institute of Technology, Institute of Radio Engineers, and Northwestern and Illinois universities, in cooperation with Electronic Industries Association, Society of Motion Picture and Television Engineers, and Michigan State, Purdue, Michigan, Notre Dame and Wisconsin universities.

The current conference, the 13th to be held in Chicago, will conclude tomorrow (Wednesday) evening.

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Frank Judd, Ext. 2391

FOR RELEASE: Immediate

Noise--what can be done about it and what has been done about it.

These problems will be discussed at the 8th annual National Noise Abatement Symposium Oct. 10 and 11 at the Sherman Hotel, Chicago.

Effects, measurements, and control of noise will be covered in the two-day meeting, according to conference chairman Daniel R. McAuliffe, research physicist at Armour Research Foundation of Illinois Institute of Technology.

The Foundation is one of a group of research and professional organizations sponsoring the annual forum. Co-sponsors include the Acoustical Society of America, American Society of Safety Engineers, National Noise Abatement Council, American Society of Planning Officials, American Industrial Hygiene Association, Acoustical Materials Association, and Noise Control Magazine.

Ten technical papers will be presented in sessions on factory noise, community noise, and acoustical treatments and their limitations. A fourth session will be devoted to a panel discussion of noise reduction concepts in practice. Two luncheon speakers will complete the program.

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MAILED: 10/3/57

Thursday morning, Oct. 10, the factory noise session will feature papers on "Reduction of Factory Noise," by Robert L. Young, noise analyst, Employers Mutual Liability insurance Company of Wisconsin, and "Identification and Diagnosis of Noise Problems with Reference to Product Noise Quieting," by Guy J. Sanders, supervisor, noise and vibration control section, Armour Research Foundation.

Luncheon speaker Dr. H. G. Kobrak, professor of otological research, Wayne State University, will present a motion picture demonstration of sound conduction in the ear.

Papers to be presented at the Thursday afternoon session on community noise include: "Community Noise--Its Acoustical Characteristics and Its Sources," Lewis S. Goodfriend, editor, Noise Control Magazine; "Community Noise Abatement Parallels with Air Pollution Control, Correction, and Community Planning," B. Linsky, air pollution control officer, Bay Area Air Pollution Control District, San Francisco; "Procedures for Estimating Noise Exposure and Resulting Community Reaction from Air Base Operations," K. N. Stevens and A. C. Pietrasanta, senior engineers Bolt Beranek and Newman, Inc., and "City Noise-Los Angeles," P. S. Veneklasen, director, Western Electro-Acoustic Laboratory.

The acoustical treatments and their limitations session, Friday morning, Oct. 11, will include: "Transmission Loss and Noise Reduction," E. E. Mikeska, Defense Research Laboratory, University of Texas; "Ventilation Noise Suppression," M. J. Kodaras, consultant; "Absorption as a Noise Control Measure in Industrial Plants," C. L. Coyne, development engineer, Western Electric Co., and "Shock and Vibration Isolation," R. T. Lowe, chief engineer, The Barrymount Corp.

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"Sounds We Would Most Like to Eliminate" will be discussed and presented at the luncheon by Robert Oakes Jordan, director, and James Cunningham, research director, Robert Oakes Jordan and Associates.

Goodfriend will moderate the panel discussion which will answer written questions from the floor dealing with individual problems at the final session Friday. Panelists include: Robert W. Benson, assistant manager, physics research department, Armour Research Foundation; L. N. Miller, consultant, Bolt Beranek and Newman, Inc.; W. Rudmose, consultant, Southern Methodist University; M. M. Miller, acoustics section chief, Douglas Aircraft Co., and C. J. Hemond, Jr., associate professor of engineering science, University of Hartford.

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

Chicago--Thirty-five Air Force ROTC cadets from Illinois Institute of Technology will tour Ellsworth Air Force Base, Rapid City, S. Dak., on Oct. 10-12.

Purpose of the three-day trip is to orient the cadets to actual flying conditions and to military life on a Strategic Air Command base.

At the base, cadets will be given a "mission briefing" identical to that given air crews before a bombing mission. Cadets also will see B-52 long-range jet bombers.

They will be billeted on the base and have the use of base facilities. Lt. John Fillipitch, AFROTC instructor at Illinois Tech, will be in charge of the cadets.

Cadets will be flown in Air Force planes, according to Col. Benjamin A. Karsokas, professor of air science at Illinois Tech.

Several other trips are planned for the IIT unit, which is the only AFROTC unit in the Chicago area.

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MAILED: 10/3/57

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FOR RELEASE: Immediate

A special invitational showing of outstanding work from the nation's leading design institutions will be presented Tuesday, Oct. 8, at the Institute of Design of Illinois Institute of Technology, Chicago.

Friends and patrons of the Institute of Design have been invited to view the huge walk-through exhibit which demonstrates how design institutions in the United States educate their young industrial designers.

The invitational showing is scheduled for 4:30 p.m. Tuesday in IIT's Crown Hall, 10 W. 34th St.

After Tuesday the display will be open to the public from 4 to 6 p.m. until Oct. 14, when it will be crated and started on a year's tour of Europe and Asia.

Students selected from eight leading design institutions in the U.S. spent the summer at the Institute of Design to edit, design, and construct the exhibit for the United States Information Service.

Warren W. Fitzgerald, head of product design at Illinois Tech, supervised work on the 3,000-square-foot display.

The exhibit shows what can be done through group participation, said Fitzgerald, by visually explaining the aims, procedures, and accomplishments of American design education.

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MAILED: 10/4/57

Participating institutions are: University of Bridgeport, University of California at Los Angeles, University of Illinois, Illinois Tech, Philadelphia Museum School of Art, Pratt Institute, Rhode Island School of Design, and Syracuse University.

Patrons of Illinois Tech's Institute of Design are:

Sewell L. Avery, director, Montgomery Ward and Co.

Ernest S. Ballard, Pope and Ballard law firm

Laird Bell, Bell, Boyd, Marshall and Lloyd law firm

Mr. and Mrs. B. E. Bensinger, president, Brunswick, Balke, Collender Co.

Mrs. Tiffany Blake, 1301 N. Astor St.

Mr. and Mrs. Leigh B. Block, director, Inland Steel Co.

Mr. and Mrs. William M. Collins, Jr., president, Allegheny Oil Co.

T. J. Connelley, 666 Lake Shore Drive

Albert B. Dick, Jr., president, A. B. Dick Co.

Mr. and Mrs. Edison Dick, director, A. B. Dick Co.

Francis R. Dickinson, investment and advertising business

Mr. and Mrs. Clay Judson, Wilson & McIlvaine law firm

James S. Kemper, chairman, Lumbermens Mutual Casualty Co.

Meyer Kestnbaum, president, Hart, Schaffner & Marx Co.

Mr. and Mrs. Sigmund Kunstadter, director, Formfit Co.

Oscar G. Mayer, chairman of the board, Oscar Mayer & Co.

Mr. and Mrs. Robert B. Mayer

Andrew McNally III, president, Rand McNally Co.

John W. Root, Holabird, Root & Burger architects

Mrs. Maurice L. Rothschild, wife of former chairman of the board, Pick Hotels Corp.

Mrs. Ellen Borden Stevenson, 1362 Astor St.

-more-

Design exhibit--add 2

William R. Stuart, president, Martin-Senour Paint Co.

Mrs. Charles H. Swift, wife of former chairman of the board, Swift & Co.

Harold H. Swift, chairman of the board, Swift & Co.

-mmw-

news about the

n e c National Electronics Conference
HOTEL SHERMAN OCTOBER 7-9, 1957 CHICAGO, ILLINOIS

The Nation's Leading Forum On Electronic Research, Development, and Application

release:

PM Monday, Oct. 7, 1957

FROM: FRANK A. JUDD
PUBLIC RELATIONS DEPARTMENT
ILLINOIS INSTITUTE OF TECHNOLOGY
CHICAGO 16 — CALUMET 5-9600

Chicago--Two scientists were cited here today (Oct. 7) for papers presented at previous meetings of the National Electronics Conference.

Leon Brillouin, New York City science consultant, received the NEC Award of Merit for his paper on "A Theorem of Larmor and Its Importance for Electrons in Magnetic Fields," presented at the 1944 NEC meeting.

The NEC Annual Award was presented to Dr. Isaac M. Horowitz, Polytechnic Institute of Brooklyn, for his paper on "R-C Transistor Network Synthesis," which he gave at the 1956 conference.

Both citations were made at the luncheon meeting of the 13th annual National Electronics Conference which opened today at the Hotel Sherman.

The NEC Award of Merit, consisting of $750 and a certificate, is made to the author of a paper presented at any preceding conference, whereas the NEC Annual Award, $500 and a certificate, is for a paper presented at the preceding year's conference.

The Award of Merit was established to honor the author or authors of a paper which, in the opinion of the awards committee, introduced developments of a new and revolutionary character capable of significantly influencing an electronics field, or of opening a new major area of electronic science or application.

-more-

[illegible]

[illegible]

[illegible]

Scholarship, originality, importance, and clarity are the bases upon which the Annual Award is presented.

Brillouin's paper is regarded as "being of paramount significance by scientists working with microwave electron tubes such as those used in radar and high frequency communications."

One facet of the practical importance of Brillouin's concepts is the resultant reduction in weight, volume, and power required in microwave equipment due to the more efficient beam focusing methods. It has been estimated that the saving in weight of radar and electronic equipment thus effected in a large military airplane amounts to almost half a ton.

The synthesis method described in Horowitz' paper "represents a contribution of major importance to the advancement of electronic art." The theory and techniques described by this paper "will have a number of commercial and military applications in telephony and general communication theory," according to the awards committee.

More than 100 papers will be presented at the 1957 National Electronics Conference, which is sponsored annually by American Institute of Electrical Engineers, Illinois Institute of Technology, Institute of Radio Engineers, Northwestern and Illinois universities, in cooperation with Electronic Industries Association, Society of Motion Picture and Television Engineers, and Michigan State, Purdue, Michigan, Notre Dame, and Wisconsin universities.

-mmw-

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

Chicago--Enrollment at Illinois Institute of Technology continues upward, according to a final count for the 1957-58 fall semester released today.

A total of 7,809 graduates and undergraduates have registered for day and evening classes, said Dr. John T. Rettaliata, IIT president. Last year's total was 7,568 students.

The fall semester registration figure at IIT represents a new high, exceeded only by the peak post-war years when 8,378 students were enrolled, according to Rettaliata.

The enrollment breakdown follows: 2,043 day undergraduates and 226 graduate day students, for a total day enrollment of 2,269; 4,680 evening undergraduates and 860 evening graduate students, for a total evening division enrollment of 5,540.

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MAILED: 10/4/57

news about the

nec National Electronics Conference

HOTEL SHERMAN OCTOBER 7-9, 1957 CHICAGO, ILLINOIS

The Nation's Leading Forum On Electronic Research, Development, and Application

release: Immediate

FROM: FRANK A. JUDD
PUBLIC RELATIONS DEPARTMENT
ILLINOIS INSTITUTE OF TECHNOLOGY
CHICAGO 16 — CALUMET 5-9600

Chicago--"The electronics industry must multiply its past progress ten or twenty-fold to keep up with rapidly increasing responsibilities placed upon it by society."

This was stated here today (Oct. 7) in a luncheon address to the National Electronics Conference by Dr. Harold V. Gaskill, vice president for planning, Collins Radio Co.

"Though the industry has been doing a tremendous job so far, it cannot rest on its accomplishments to date," Gaskill continued.

He cited the fields of communications, data processing, air navigation, and national defense as representative areas in which the electronics industry must "constantly readjust to live up to its past record and the world's increased demands for improvement."

"One of the reasons for the accelerated demands on the industry is the world's tremendous population growth, which has increased far more rapidly than anticipated.

"Unrelenting research and an excellent long range planning program will be needed by the industry to solve the problems.

Though Gaskill believes that the industry already has "come of age," he specified that they must continue their fine record to have the goods when they are needed, not after they are required.

The three-day National Electronics Conference opened today at the Hotel Sherman. Twenty-one technical and two tutorial sessions, which will include 100 papers, are on the program agenda.

10/7/57 -mmw-

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FOR RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: TELLER INTERNATIONAL BRASS AND COPPER COLLECTION AT ILLINOIS INSTITUTE OF TECHNOLOGY.

Time and Place: 2:30 P.M. TUESDAY, OCT. 8, METALLURGICAL AND CHEMICAL ENGINEERING BUILDING, 10 W. 33RD ST.

An exhibit of brass and copper objects from all over the world will be displayed at Illinois Institute of Technology's Metallurgical and Chemical Engineering building, 10 W. 33rd St.

Sidney A. Teller, who has been collecting brass and copper articles since 1910, will be on hand to answer any questions about the exhibit at 2:30 p.m. Tuesday, Oct. 8.

The objects range from large water-carriers to tiny teapots and would provide excellent picture possibilities. The story of such pieces as Marie Antoinette's tea kettle, the "magic" water puzzle, and a rare goddess statue from Tibet should make good feature material.

You are invited to send a reporter and/or photographer. I will be there to assist your representative.

Sarah Henley
CAlumet 5-9600
Ext. 2386

MAILED: 10/7/57

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Frank Judd, Ext. 2392

FOR RELEASE: Immediate

Chicago--Executives in the purchasing field will exchange views on the purchasing function in a two-day workshop, Oct. 22 and 23, at Illinois Institute of Technology.

The Purchasing Workshop is being sponsored by the Purchasing Agents Association of Chicago, a unit of the National Association of Purchasing Agents, in cooperation with the IIT department of business and economics.

More than 300 executives will participate in four workshop sessions on traffic, materials management, value analysis, and materials control. Two luncheon speakers will complete the workshop program.

Richard B. Berry, deputy purchasing agent, City of Chicago, and Dr. Pearce Davis, chairman of the IIT business and economics department, are co-chairmen for the event.

Registration and the opening session will be held in IIT's Metallurgical and Chemical Engineering Building, 10 W. 33rd St., with all other sessions scheduled for the Commons Building Lounge, 3200 S. Wabash Ave.

The program follows:

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MAILED: 10/8/57

Tuesday morning, Oct. 22, 9:30 a.m., Workshop I, "Purchasing and Traffic Cooperate for Profits," Marshall M. Parkhurst, traffic manager, International Harvester Co., conference leader, and Gerald J. Matchett, director, National Center of Education and Research in Dynamic Equipment Policy, Illinois Institute of Technology, chairman.

Tuesday noon, luncheon, "Economic Forecasting," George A. Renard, associate editor, the Journal of Commerce, speaker, and H. C. Kopp, PAAC president and district purchasing agent, The Anaconda Co., chairman.

Tuesday afternoon, 2:20 p.m., Workshop II, "Materials Management," Louis J. DeRose, DeRose and Associates, conference leader, and C. R. Drieske, PAAC past president and purchasing agent, Hudson Screw Products Co,, chairman.

Wednesday morning, Oct. 23, 9 a.m., Workshop III, "Value Analysis," H. J. Jungbluth, director of purchases, The Oilgear Co., conference leader, and M. D. Kilbridge, director, IIT industrial engineering department, chairman.

Wednesday noon, luncheon, "What Purchasing and Management Expect of Each Other," Stuart F. Heinritz, editor, Purchasing Magazine, speaker, and J. C. Frehner, PAAC second vice president and purchasing agent, Bowman Diary Co., chairman.

Wednesday afternoon, 2:30 p.m., Workshop IV, "Improved Purchasing Through Materials Control," George A. Fadler, manager, purchasing and traffic, Transformer Division, Westinghouse Corp., conference leader, and Seymour Ellison, PAAC first vice president, and purchasing agent, Perfection Gear Co., chairman.

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For further information on this release, contact:
Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

A concert featuring some of Chicagoland's best-known jazz artists will be presented at Illinois Institute of Technology, Chicago, Oct. 12.

The latest in the "Jazz at Tech" programs will be staged in the Student Union Auditorium, 47 W. 33rd St., at 8 p.m.

Buddy DeFranco, George Brunis, and Peggy Taft will bring their respective bands and styles of jazz to IIT under the auspices of the Student Union Board, which again is sponsoring the music series.

Proceeds from ticket sales will go toward other concerts during the school year. The Fine Arts Quartette is scheduled for December.

Tickets are on sale for $1.50 at the concession booth in the Student Union and will be available at the door.

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FOR RELEASE: Immediate

Chicago--Felix Candela, Mexico's foremost architect-engineer-builder, will be a featured speaker at the Third National Construction Industry Conference, Dec. 11 and 12, at the Congress Hotel.

Sponsored by Armour Research Foundation of Illinois Institute of Technology, the two-day meeting will include discussions on forms, materials, methods, and applications by leading authorities in each field.

"Creative Trends in Structural Design" will be the theme of the 1957 meeting, according to conference chairman Dr. Robert L. Janes, assistant manager of the ARF mechanical engineering research department.

Internationally-known architect Ludwig Mies van der Rohe, head of the architecture department at Illinois Institute of Technology, will welcome some 500 engineers and architects expected to attend the conference.

Candela will discuss "Hyperbolic Paraboloids," in particular the thin concrete umbrella roof which he introduced and which is being used on industrial buildings, public markets, and churches in Mexico.

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MAILED: 10/9/57

The opening session, Wednesday morning, Dec. 11, will include the following discussions on "Form": "Air-Supported Structures," Walter F. Bird, Bird-Air Structures, Inc., Buffalo, N.Y.; "Hyperbolic Paraboloids," Felix Candela, Cubiertas Ala S.A., Mexico City; "Cable-Tied Structures," Fred N. Severud, Severud-Elstad-Kreuger, New York City, and "Thin Shells," Dr. Anton Tedesco, vice president, Roberts and Schaefer Co., New York City. Thomas F. Creighton, editor, Progressive Architecture, will be session chairman.

Joseph P. Wolff, commissioner, Department of Buildings and Safety Engineering, Detroit, Mich., will be the luncheon speaker Wednesday. A past president of the Building Officials Conference of America, Wolff will discuss the effect of building codes on structural innovations.

Session II on "Materials," Wednesday afternoon, will include talks on" "Prestressed and Lightweight Concrete," Joseph J. Shideler, development division, Portland Cement Association, Chicago; "Fiber-Reinforced Materials," Gen. B. S. Kelsey (USAF, Ret.), technical consultant, Owens Corning Fiberglas Corp., Springfield, O.; "Lightweight Metals," C. Robert Lillie, research metallurgist, Armour Research Foundation; and "New Developments in Timber," Elon E. Ellis, vice president, Timber Structures, Inc., Portland, Ore. Lawrence Lessing, consultant on technology for Architectural Forum and Fortune, will be session chairman.

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Thursday morning, Dec. 12, Session III on "Methods" will feature talks on: "Plastic Design in Steel," Lynn S. Beedle, chairman of the structural metals division, Lehigh University, Bethlehem, Pa.; "Structural Model Analysis," Dr. August J. Durelli, supervisor of experimental stress analysis, Armour Research Foundation, and professor of civil engineering, Illinois Tech; "Ultimate Strength Design of Structural Concrete," Dr. Eivind Hognestad, manager, structural development section, Portland Cement Association, and "The Potential of Computers in Structural Design Procedures," Dr. James H. Turnock, Jr., field manager, applied science, International Business Machines Corp., Poughkeepsie, N.Y. Frederick S. Merritt, senior editor, Engineering News-Record, will be session chairman.

Robert Fischer, engineering editor, Architectural Record, will speak on structures of the future at the Thursday noon luncheon.

The final session on "Applications," Thursday afternoon, will include discussions on: "Developments in Dome Structures," Robert J. Hume, manager, of development, Kaiser Aluminum and Chemical Corp., Oakland, Calif.; "Newcomer to Construction: Plastics," Michael Gigliotti, manager, structural plastic engineering, Monsanto Chemical Co., Springfield, Mass.; and "High Speed Computers for Structural Analysis," Charles W. Zahler, engineering division, United States Steel Corp., Pittsburgh, Pa. Walter E. Jessup, editor, Civil Engineering, will be session chairman.

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

Three outstanding Chicagoland sports figures will kick off Illinois Institute of Technology's 1957-58 alumni luncheon series Oct. 17.

Wallie Hass, athletic director of the University of Chicago, Jerry Holztman, Sun-Times sports writer, and Joe Stampf, basketball coach at the University of Chicago, will speak at the luncheon.

Luncheons will be held at 12:10 p.m. on the third Thursday of each month in the Club Room of the Art Institute, Adams St. and Michigan Ave.

This year's get-together series marks the 15th consecutive year of the Illinois Tech Alumni Association luncheon programs.

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FOR RELEASE: AFTER 9:30 A.M. SATURDAY, OCT. 12, 1957

Chicago--American scientific and technological superiority will continue to hold Russia at bay in spite of her success in launching the earth's first satellite.

Dr. John T. Rettaliata, president of Illinois Institute of Technology, expressed this belief here today (Oct. 12) before the Chicago Area Science Conference of the Chicago Teachers Science Association at the University of Chicago.

Speaking "In Defense of Science," Rettaliata pointed out that scientific and technological superiority has enabled the United States to check successfully the menace of Russia's competing order to our social system.

"I am confident that, by maintaining that superiority, we can continue permanently to quarantine that force of evil," he said.

"...I say this with full recognition that Russia, in launching the first artificial satellite last week, apparently is temporarily ahead of us in this particular enterprise."

Countering the prevalent fear that science and the limitless power suddenly pressed into man's hands by the atomic bomb have given man a great potential for evil, he added hopefully:

"If the atomic bomb suddenly and vastly has widened man's possible choice of good or evil, further advances in atomic knowledge, and other discoveries that are imminent, are widening it even more."

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"They are widening it so greatly and rapidly," he said, "that I cannot but reach the conclusion that the choice of evil use is about to become virtually impossible."

Even behind the Iron Curtain that impossibility is becoming increasingly evident, he added.

Science steadily has been moving considerations of good and evil to a top place in the thoughts of man everywhere on the globe, Rettaliata pointed out.

Science is compelling all men to think of terms of ultimate values and ultimate ends, he said, and it is making men think in terms of the whole of mankind.

The Illinois Tech president sees science and its advance turning out to be, not the spectre it may temporarily seem to be, but a force that is hastening the process of man's moral and spiritual development.

"It is my conviction," he said, "that science and technology are having profound and beneficial effects upon our social order."

"It is my belief that science is providing us with the means to attain many of the age-old goals of the idealists, and that it is laying the foundation upon which we can ultimately build the moral and spiritual order that the heart and soul of man always have craved."

Asserting that none of this could have come about except for the part played by the individual, he said, it is the individual who must devise the means to achieve the increased productivity necessary in our future existence.

"In particular, the scientist and the engineer will bear the major burden in bringing into reality the potential in store for us," said Rettaliata.

"Competent management, as always, will furnish the medium through which creative forces ultimately produce a useful product; but the basic dependence of the economy will be upon science and technology."

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FOR RELEASE: Immediate

A series of six lectures relating Christianity and the contemporary world will begin Sunday, Oct. 13, at Illinois Institute of Technology, Chicago.

The Rev. Jules Moreau, New Testament Department of Seabury Western Theological Seminary, Evanston, Ill., will discuss "Christian Faith: A Live Option for Contemporary Man?" at 6 p.m. in the recreation room of Carman Hall, 60 E. 32nd St.

Sponsored by the Canterbury Association of Illinois Tech, the fall lecture series will include:

Oct. 20--"Consensus of Contemporary Theology," by the Rev. Colin Williams, of Melbourne, Australia, Methodist delegate to the World Council of Churches meeting, Garrett Seminary, Evanston, Ill.

Oct. 27--"The Contemporary World and Cook County Jail," by the Rev. James Jones, chaplain, Cook County Jail.

Nov. 3--"A Christian Student Looks at the Contemporary World," by John Drabalbius, University of Chicago student, Seabury-Western Theological Seminary.

Nov. 10--"Narcotics Anonymous," by the Rev. Robert Jenks, director of a new field program in narcotics, St. Mark's Church, Chicago.

Nov. 17--"The Contemporary World in the Shadows of Tech," by the Rev. Iver G. Lawrence Jr., chaplain at Illinois Tech and rector at Trinity Episcopal Church, Chicago.

The series is open to all interested persons. Each lecture will be presented in the Carman Hall recreation room at 6 p.m.

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FOR RELEASE: PM FRIDAY, OCT. 18, 1957

Chicago--What is air?

No one really knows, according to T. H. Chadwick and Paul L. Brady, design group engineers at Convair, a division of General Dynamics Corp., San Diego, Calif.

The two engineers presented a paper on "New Design Concepts for High-Pressure Pneumatics Systems" before the 13th annual National Conference on Industrial Hydraulics here today (Oct. 18).

The conference is sponsored by Illinois Institute of Technology and its affiliate, Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

Air--the most common combination of gases--still has the experts stumped, say Chadwick and Brady. Scientists find air unpredictable at high pressures--so unpredictable that it has "become necessary to employ new and complicated techniques" in order to develop high-pressure pneumatic equipment.

"Design engineers for low-pressure pneumatics and hydraulics don't have this handicap," they explained. "Data is available to them."

Hydraulics differs from high-pressure pneumatics in several ways. Besides the obvious difference in fluid medium--air and water--hydraulics and high-pressure pneumatics can be applied in different ways for different degrees of efficiency.

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In a basic cylinder power circuit, it was pointed out, the fields of hydraulics and pneumatics coincide. In some situations, however, hydraulics might be used, but pneumatics might be preferred. In another, the situation presented might be ideal for pneumatics but impossible for hydraulics.

Basically, the objective of high pressure pneumatics is to design an auxilary power system in an aircraft which would give maximum loads in minimum times...build it around a gas in a manner best adapted to an expandable-compressible fluid for intermittent performance, according to the two engineers.

The paper was presented on the last day of a two-day conference devoted to the promotion and exchange of technical knowledge of industrial hydraulics in both fundamental and applied areas.

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FOR RELEASE: PM THURSDAY, OCT. 17, 1957

Chicago--Scientists have found the solution to the problem of shock absorbers for bulldozers by looking to the sky.

"Since hydraulics and air are used in airplanes to cushion the landing shock, we decided to apply the same method to heavy earthmoving equipment," said Ralph H. Kress, manager of the LeTourneau-Westinghouse Co. truck division in Peoria, Ill.

Kress spoke at the 13th annual National Conference on Industrial Hydraulics here today, (Oct. 17).

The conference is sponsored by Illinois Institute of Technology and its affiliate, Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

The similarity of problems between high-speed planes and earthmoving equipment resulted in the new LeTourneau-Westinghouse "Hydrair" suspension which provides for fast travel over uneven terrain with a minimum of shock, Kress explained.

The wheel suspension unit consists of only two parts, he added, a stationary cylinder secured to the frame and a moving piston secured to and operating with each wheel.

Degrees of shock absorption can be varied to suit any requirements by regulating the amount of air pressure in the chambers. The suspensions are available for wheel loads from 5,000 to 30,000 pounds, he said.

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Kress explained that the whole unit acts as a giant two-way shock absorber which permits the wheel to follow ground irregularities, but "snubs" its return action to give a smoother ride.

Kress spoke at the opening day session of the two-day conference devoted to elevating the general level of technical knowledge in the industrial hydraulics field through papers and discussions.

NCIH also sponsors an educational hydraulics program at Illinois Tech.

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FOR RELEASE: PM FRIDAY, OCT. 18, 1957

Chicago--What makes a guided missile turn when it is outside the earth's atmosphere?

"A few pounds of pneumatic thrust from an air nozzle in space is sufficient to control and orient a huge missile in flight," said Leonard L. Baker, managing engineer of the mechanical laboratory at Chrysler Corp. Missile Operations, Detroit, Mich.

"The thrust can be obtained by a high-pressure pneumatic system for storing energy--the controlled release of high pressure gas to provide attitude control," he said.

Baker spoke at the 13th annual National Conference on Industrial Hydraulics at the Hotel Sherman today (Oct. 18).

The conference is sponsored by Illinois Institute of Technology and its affiliate, Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

Baker said the high-pressure pneumatic system for storing energy offers the following major advantages to the ballistic missile field:

--Can be programmed automatically.

--Is simple, reliable, and lightweight.

--Requires a minimum of servicing.

--Is compatible with materials in the system.

--Can be charged rapidly and simply, offering advantages for storage and field use.

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Baker cited the Chrysler missile, the Redstone, a surface to surface ballistic missile intended as a mobile field weapon for use by the Army ground forces to supplement artillery, as an example of pneumatic control.

"We have discovered that...the expanding field for missiles utilizing pneumatics leaves an urgent need for products which are suitable for this service," he said.

Many manufacturers are holding practically exclusive rights in the field by default alone, he explained. Missile manufacturers would be "particularly pleased" to have their development burden reduced by further improvements in these applications.

He stressed that the final product is only as good as the effectiveness and thoroughness of the test and inspection program.

Baker spoke on the last day of a two-day conference devoted to the promotion and exchange of technical knowledge of industrial hydraulics in both fundamental and applied areas.

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FOR RELEASE: PM FRIDAY, OCT. 18, 1957

Chicago--New techniques to obtain basic data on fluids have been developed at the Institute of Gas Technology of Illinois Institute of Technology, Chicago, and California Institute of Technology, Pasadena, Calif.

The techniques were explained in a paper presented today (Oct. 18) by Dr. Rex T. Ellington, assistant research director, and Bert E. Eakin, supervisor of reservoir engineering, both of the Institute of Gas Technology, at the 13th annual National Conference on Industrial Hydraulics.

The conference is sponsored by Illinois Tech and its affiliate, Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

The Institute of Gas Technology has improved a basic mechanism frequently used to determine the resistance to flow of various fluids. The new type of viscometer is based on the forces resulting when a fluid is forced through a small tube.

California Institute of Technology's viscometer is based on the forces resulting when fluid is contained between a stationary cylinder and a rotating cylinder.

"Facts pertaining to viscosity--resistance to flow--and compression of fluids under high pressure are of great value to hydraulic engineers," said Ellington.

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"Apparatus previously used to measure the compressibility of fluids is quite applicable to hydraulic liquids. The current efforts in viscometry are to develop 'absolute' type instruments," he said.

"Both of the new viscometers can be used at pressures up to about 10,000 pounds per square inch," said Ellington. "They will measure through all ranges of temperature normally encountered in high pressure hydraulics."

The current need for high pressure information on hydraulic fluids did not arise until the advent of modern high-speed airplanes, machine tools, and other equipment in use today.

The engineers explained that most viscometers previously used on these fluids had given only data relating one fluid to another; the new apparatuses will give basic, or absolute, information about a certain fluid.

The paper was presented on the last day of a two-day conference devoted to the promotion and exchange of technical knowledge of industrial hydraulics in both fundamental and applied areas.

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FOR RELEASE: Immediate

Problems in planning and constructing Chicago's nuclear power station will be the topic of a public lecture at Illinois Institute of Technology on Wednesday, Oct. 16.

Three specialists from Commonwealth Edison Co., which is constructing the plant in association with other companies at its Dresden station, will discuss "The Largest All-Nuclear Power Station" at the meeting of the IIT chapter of the Society of Sigma Xi.

The talks will be presented at 8 p.m. in the auditorium of the IIT Chemistry Building, 33rd and Dearborn Sts.

Economics, site and cycle selection, plant description, reactor design, fuel design, fuel manufacture, materials of construction, waste disposal, system control, safety, and construction progress will be discussed.

The speakers will be John J. Poer, project engineer, Norman E. Wandke, nuclear consultant, and Aloysious F. Veras, nuclear engineer.

Poer received a civil engineering degree from the University of Illinois in 1929. Prior to being named project engineer for the Dresden project, he was in charge of the mechanical design section of Commonwealth Edison's engineering department.

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Wandke was graduated from the University of Illinois in 1950 and the Oak Ridge School of Reactor Technology in 1955. He has been with Commonwealth Edison since 1950 and joined its nuclear group in 1952.

Veras received a bachelor's degree in 1940 and a master's degree in 1956 from Illinois Tech, and was graduated from the Oak Ridge School of Reactor Technology in 1957. He has worked in system planning and is responsible for reactor performance at the Dresden station.

Herbert P. Sedwick, president of Public Service Co. and member of the Illinois Tech board of trustees, will introduce the speakers.

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FOR RELEASE: At Will

Chicago--Seven new members have been appointed and six renamed to the board of directors of the Illinois Institute of Technology Alumni Association, it was announced today.

Chester W. Hauth, 691 Sheridan Rd., Winnetka, president of the Illinois Tech Alumni Association, announced the following appointments:

New board members: Leslie C. Hymes, 8036 S. Yale Ave.; Otto Kuehn, 6428 N. Navajo Ave.; Harold C. Mueller, 1227 Forest Glen Dr., Winnetka; Milton J. Pleva, 5124 S. Wolf Rd., Western Springs; Anton J. Pros, Jr., 1303 31st St., La Grange Park; Elmer F. Reske, 10350 S. Fairfield Ave., and Arthur H. Retzlaff, 252 Mantua, Park Forest.

Renamed to the board: Edmund M. Burke, 8150 S. Dobson Ave.; Clarence A. Herbst, 206 Merrill, Park Ridge; Arthur M. Jens, 618 Gary Ave., Wheaton; Francis X. Mettinet, 6901 Oglesby Ave.; Harold W. Munday, 336 Oakdale Ave., and Mrs. Alice A. Perreault, 405 S. Spring St., La Grange.

Mueller, president of the association last year, will continue to serve as alumni representative on the IIT Board of Trustees.

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FOR RELEASE: PM THURSDAY, OCT. 17, 1957

Chicago--If the problems of the transportation economy as a whole are clearly defined and rationally dealt with, our transportation system can continue to be the greatest in the world.

Brig. Gen. Franklin M. Kreml, director, transportation center, Northwestern University, made this statement in a speech before the all-society banquet of the 13th annual National Conference on Industrial Hydraulics today (Oct. 17) in the Hotel Sherman.

The conference is sponsored by Illinois Institute of Technology and its affiliate, Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

"The United States has become a great industrial nation largely because it has been successful in developing regional specialization," said Kreml. "This development depends upon an adequate and economically successful transportation system."

Since the U.S. is the only major national transportation network operating under private ownership in a free enterprise system, he added, it is important, not only to the transportation economy, but to the economy of the United States itself, that the system be continuously strengthened and improved.

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Kreml said the critical strains and difficulties besetting the transportation industry stem in part from population and market shifts and the impact of extensive technological change within the system itself, which have brought complications and uneven development.

"There is substantial and long-standing disagreement with respect to the character and extent of regulation required, both between government and industry and within the transportation industries themselves," explained Kreml.

He went on to say that further vitalization of the transportation economy can and is being accomplished by the private managements of induvidual companies and by joint education and research programs of private transportation companies and universities.

"From such education and research can come facts, analyses, and conclusions which will benefit all types of transport and ultimately the whole national economy," he concluded.

The two-day conference devoted to the promotion and exchange of technical knowledge of industrial hydraulics in both fundamental and applied areas, will end tomorrow.

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C O R R E C T I O N

The advance release on a speech by Brig. Gen. Franklin M. Kreml at the all-society banquet of the 13th annual National Conference on Industrial Hydraulics, mailed Oct. 14, was incorrectly dated for release to PM's Thursday, Oct. 17, 1957.

The correct release date should read: AM Friday, Oct. 18, 1957.

--Frank Judd
Coordinator of Special Events

MAILED: 10/16/57

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FOR RELEASE: Immediate

Chicago--Problems of simulating learning procedures of the human mind in digital computers will be among topics discussed at the Computer Applications Symposium, Oct. 24 and 25, at the Morrison Hotel.

Dr. A. L. Samuel, research advisor of International Business Machines Corp., will discuss the subject in his talk "How Lazy Can You Get" at the Oct. 25 luncheon meeting.

He will report on his studies of human learning processes and show how digital computers can be programmed to accomplish certain of these.

The two-day meeting, sponsored by Armour Research Foundation of Illinois Institute of Technology, also will include the related problem of computer programming and efforts to introduce systems in terms of human language rather than machine language.

Dr. Grace M. Hopper, director of automatic programming at Remington Rand Univac Division, will discuss the subject in "Automatic Programming for Business Applications" during the afternoon session on Oct. 24.

She will relate attempts which are being made to eliminate costly analysis of business problems, arising from the need for translation into machine language.

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In addition, sessions will stress new applications of computers, as well as new computers and accessories, according to Albert K. Hawkes, program chairman and assistant supervisor of mathematical services at ARF.

Dr. J. D. Carroll, Jr., director of the Chicago Area Transportation Study, will consider computer applications to present and future traffic problems in his address at the Oct. 24 luncheon.

Other items included in the program are computer applications to an airline reservation system, data processing tasks for the 1960 census, digital simulation of active air defense systems, and other specialized business and scientific areas of applications.

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FOR RELEASE: TUESDAY AM'S, OCT. 22, 1957

The adequacy of liberal arts education in today's technological civilization was challenged last night at the annual meeting of trustees of Illinois Institute of Technology in Chicago.

President John T. Rettaliata, in his report to the board at the Chicago club, declared that in an industrial society any curriculum "not broadened to the extent of including an understanding of science and technology is not balanced or relevant and, therefore, not liberal."

Urging that science be a requirement in the curriculum, the educator added:

"A proper liberal program prescribes areas of learning which permit the student to grasp the significance of tradition and history.

"Modern liberal education can exclude science no longer. In the past, most of science's research efforts were of a pure or fundamental nature, primarily of interest to the laboratory or classroom.

"Today the situation has changed to the extent that practically all research is of the applied type, which means it has a current effect on society.

"The liberally educated man obviously must be cognizant of this effect."

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Rettaliata said strenthening of the engineering curriculum in the fields of the humanities and social sciences has been a major development in technological education.

He explained that changes and extensions have steadily been effected to broaden the base of engineering education to develop the potentialities of widest effectiveness in an industrial civilization.

Education's goal, he continued, must be more understanding of social problems by the scientist, and more understanding of science by society generally.

"If it is important for the engineer to understand economics, and the implications of history and the arts, certainly, it is equally important that students pursuing a liberal education understand some of the problems and results of science and technology, and the facts of the nation's industrial growth," he added.

The Illinois Tech president said that growing emphasis on technology and research will result in increased graduate study.

"The badge of admission into the engineering profession," he added, "will gradually move from the bachelor's degree to a higher degree as the increasing complexity of industrial operations necessitates longer periods of preparation."

Rettaliata's report hit at charges that the youth of the country is being "high-pressured" into studying engineering and that technological education has been given emphasis at the expense of the liberal arts and humanities.

He cited figures comparing freshman engineering enrollments with total first-time college male enrollments and showing little percentage change in recent years. The 1956 freshman engineering enrollment was 17.4 per cent of first-year men. This figure has not changed one percentage point in the last four years.

Rettaliata also reported that Illinois Tech assets on Aug. 31, the end of the fiscal year, amounted to $37,200,000, compared with $33,418,870 a year earlier.

The 1957 total included land, buildings, and equipment valued at $28,225,000, a gain of approximately $2,650,000.

Consolidated annual budget income was placed at $20,380,000, the highest in the Institute's history and a gain of $3,000,000 over the Aug. 31, 1956 total.

Discussing progress in the campus development program, Rettaliata reported that a new engineering laboratory of the Association of American Railroads research center was completed, and an electrical engineering and physics classroom and laboratory building was near completion at the end of the year. Although not scheduled for completion until next month, classes are being held in the latter building. The new AAR building will be dedicated in November.

Other construction started during the year included a four-story addition to the metals research building of Armour Research Foundation and an addition to the campus heating plant. At the year-end, 24 of more than 50 buildings planned for the campus were completed or under construction.

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from
ILLINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

News Supervisor: Miss Mildred Wyatt
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology
Day Phone: CAlumet 5-9600, Extension 2385
Night Phone: DAnube 6-1965
For further information on this release, contact:
Darrell Vincent, Ext. 2384

OR RELEASE: AM Monday, Oct. 20, 1957

Cleaner Air Week (Oct. 20-26) opens in Chicago with good news about air pollution.

September saw the city's dustfall take another drop for the fifth consecutive month.

An average of 36.0 tons of dust per square mile fell on the city during the month, compared with averages of 42.3, 43.4, 53.5, and 54.2 for the preceeding four months, reported Samuel Radner, research chemical engineer at Armour Research Foundation of Illinois Institute of Technology.

The average also was considerably lower than the September 1956 reading of 56.1, Radner pointed out.

Unfortunately, he reminded, the trend probably will be reversed this month with hundreds of thousands of heating units in homes, apartment and office buildings starting up for the winter.

Though the city registered an over-all air pollution improvement, the Loop was 19 per cent dirtier than it was in August of this year. September's Loop reading was 94.6, compared to 79.4 for August.

Highest reading in the city outside the Loop was the station at 8858 S. Marquette Ave., with 78.3 tons per square mile. Lowest reading in the city was the station at 7559 Eggleston Ave., with 14.5 tons.

Following is the station breakdown for September:

MAILED: 10/18/57

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[illegible]

September dustfall--add 1

Station Address	Ward No.	Total Dustfall
The Fair Store	1	83.4
33 N. LaSalle St.	1	105.6
Loop Average		94.6
2135 S. Michigan Ave.	1	32.4
825 E. 44th St.	4	20.7
1362 E. 59th St.	5	LOST
7531 Stony Island Ave.	7	75.5
67 W. 113th Pl.	9	23.9
8858 Marquette Ave.	10	78.3
2240 W. 37th St.	12	35.1
3105 W. 63rd St.	13	25.5
62nd and Linder	13	19.5
7559 Eggleston Ave.	17	14.5
1620 W. 99th St.	19	16.3
3608 Ogden Ave.	22	56.4
1340 W. Monroe St.	26	41.0
5055 Fulton St.	30	27.4
1513 N. Western Ave.	32	14.6
5602 Belden Ave.	36	30.3
3312 Belle Plaine Ave.	40	LOST
7350 Pratt Ave.	41	24.4
54 W. Hubbard St.	42	34.5
551 Grant Pl.	44	23.1
3532 Sheffield Ave.	46	29.8
1622 Pratt Bl.	49	37.8
Average		36.0

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FOR RELEASE: Immediate

Why do people give money?

Basic motivations behind giving will be discussed by George S. Speer at the Great Lakes District convention of the American Public Relations Association Tuesday, Oct. 22, in Highland Park, Ill.

Speer is director of the Institute for Psychological Services at Illinois Institute of Technology, Chicago.

Speaking on "The ABC's of Giving," Speer will explain why people give money and what they expect to gain by giving.

The three-day ACPRA district meeting will open Sunday, Oct. 20, at the Hotel Moraine.

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

Aaron Siskind, assistant professor of photography at Illinois Institute of Technology's Institute of Design, Chicago, has been named one of three judges for a world-wide U.S. Army photography contest.

The Department of the Army invited Siskind, Harold Allen, head of photography at the Art Institute of Chicago, and Albert Madsen, chief photographer, Chicago Tribune, to judge the contest "because of their excellence in the field of photography."

Judging will be Nov. 4 at Fifth Army headquarters, Chicago. Winning pictures--selected from over 300 photos--will be on display at the Museum of Science and Industry, 57th St. and South Shore Dr., from Nov. 6 to 12.

Photographs entered in the contest already have competed in inter-post and inter-command contests. Chicago winners will be sent to an interservice contest Dec. 4 in the Pentagon, Washington, D.C.

Siskind, on the IIT staff since 1951, has been a commercial photographer in New York and has taught photography at Trenton Junior College.

He is a graduate of the College of the City of New York and has done graduate work there and at Fordham and Cornell universities.

Siskind lives at 615 N. LaSalle St.

10/21/57 -mmw-

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FOR RELEASE: PM'S THURSDAY, OCT. 24, 1957

Chicago--Automation, of necessity, will be used increasingly to meet a relative decline in the labor force and a larger national output.

This was the prediction made here today by Dr. John T. Rettaliata, president of Illinois Institute of Technology, at the Midwest Conference on Quality Control at the Hotel Sherman.

Speaking on "Quality in an Automated Economy," Rettaliata said that automation can lower production costs by increasing productivity of the individual worker and by better control of production and business.

"Automation can, and almost always does, yield a better quality of manufactured product or processed item," he noted.

"The combination of these characteristics leads to a more favorable relationship between quality and costs from the consumer's standpoint, which improves profit and, at the same time, advances the standard of living."

To be entirely effective, however, the Illinois Tech president said that the entire plant--from raw material to consumer--must be geared to automation.

"The huge investment in an automated production line requires that all phases of the business--raw material procurement, manufacture, warehousing, sales, and distribution--be scheduled for the most effective and economic use of the production facility."

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MAILED: 10/23/57

At the same time, these goals can be acquired only through top management understanding and program coordination, Rettaliata said.

New problems that management must cope with include plant communications, proper employe education and training, long-range planning, and revised cost elements and job descriptions.

Scientists and engineers will be called upon to conceive and develop the tools industry will need to produce the things necessary for the satisfaction of the public's ever-increasing demand for better living, he stated.

To meet this need, Rettaliata predicted a change in emphasis in engineering education.

It will not be too long before a graduate degree will be the minimum requirement in engineering, in order to better prepare engineers for their leadership role in the industrial economy, he said.

Industry has a reciprocal responsibility to help in the task of education, he added.

If the demand for more and finer engineers is to be met, there is an urgent need for greater effort to reach into the high schools and bring engineering as a career to the attention of American youth.

Rettaliata charged the industrial representatives to intensify efforts to interest more young men and women in the profession, to give them compelling motivations for entering the field.

"A major effort must be made to bridge the gap between high school and college, to eliminate or reduce the tragic loss of potential scientific and engineering talent which is not developed by formal education at the higher level," he said.

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FOR RELEASE: Immediate

Chicago--An $11,500 grant for continuation of a study of normal cell behavior has been awarded to Dr. William F. Danforth, assistant professor of biology at Illinois Institute of Technology

The two-year National Science Foundation grant is provided for research on cellular permeability and metabolic regulation, and will continue work Danforth has done for the American Cancer Society.

"If scientists can gather information on normal cell function and cell adaptivity, deviations in behavior--such as found in cancerous cells--will be more easily discerned," said Danforth.

Purpose of the research is to find how a cell controls its behavior to cope with its environment. Euglena, a microscopic single-celled creature, and yeast cells are used in the experiments.

These organisms can alter their ability to digest and take in particular foods when exposed to certain environmental changes, explains Danforth.

Danforth, a specialist in cellular physiology and zoology, has been with IIT since 1952. He received his bachelor's degree from the State University of Iowa, his master's degree from Columbia University, and his Ph.D. from the University of California at Los Angeles.

He lives at 60 E. 32nd St.

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FOR RELEASE: Immediate

Chicago--Modification of the ancient art of ceramics may help solve one of the big problems of smog and air pollution--automobile engine exhaust.

Ceramic scientists at Armour Research Foundation of Illinois Institute of Technology have developed a catalytic ceramic coating for piston heads which shows promise of significantly reducing the amount of carbon monoxide and unburned hydrocarbons in exhaust gas.

In addition, the coating offers promise of thermal insulation, greater combustion efficiency and, thus, more economical operation, according to Samuel W. Bradstreet, supervisor of inorganic technology at ARF.

The process stems from a method previously developed and patented by the Foundation called "Flame Ceramics," in which coatings are produced by spraying non-metallic powders through a flame gun. Continental Coatings Corp., Chicago, has exclusive license to the process.

Earlier work in "Flame Ceramics" indicated that these coatings might reduce thermal cracking and carbon deposits in diesel engines, Bradstreet said.

On this basis, Foundation scientists developed a flame-sprayable coating containing rare earth oxides which would act as a catalyst in internal combustion engines.

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MAILED: 10/24/57

With "about half" of the top area of its pistons coated, a standard automobile engine was run under idling, cruising, and full acceleration and deceleration conditions with non-leaded gasoline and with air bled in at the carburetor intake.

Comparing exhaust data from this investigation with an identical "uncoated" engine test, it was found that the coating decreased carbon monoxide and decreased unburned hydrocarbon proportion, particularly during acceleration and deceleration.

"While so far we have achieved limited effect under idling condition or high crusing speeds, this trial indicates that the coating may have significant effect on gasoline engine exhaust," Bradstreet stated.

"We can assume the effect would be even more pronouced if both piston and cylinder heads were more completely coated with more active materials."

Many problems remain to be considered and solved in the process, he pointed out. For example, there is a possibility of developing a more active and stable coating which should be tested both on diesel and gasoline engines--the latter with leaded fuels.

"There also is evidence that the coating will permit higher surface combustion temperatures and thus reduce carbon formation and lead oxide condensation," added Bradstreet.

It may be possible that the coating would catalyze surface combustion rate sufficiently to warrant reduction of anti-knock additives in gasoline, minimizing the problem of "poisoning" by lead oxide, he said.

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At the same time, the coating should restrict thermal transfer and, thereby, increase life expectancy of pistons and heads. Further research, along with regard to such matters as air-fuel mixtures and anti-knock and pre-ignition effects, should determine the full possibilities of the coating, Bradstreet said.

The Foundation will continue the investigation under outside sponsorship.

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OR RELEASE: Immediate

Chicago--The 16th annual meeting of members and the board of trustees of the Institute of Gas Technology, affiliate of Illinois Institute of Technology, will be held at 11 a.m. Wednesday, Oct. 30.

Dr. Martin A. Elliott, IGT director, will review the Institute of Gas Technology's contributions to the advancement of the gas industry during the 1957 fiscal year.

The meeting will be held in the assembly hall of the IGT building at 34th and State streets. A buffet luncheon will follow. Tours of the IGT laboratories on the Illinois Tech campus and the Crawford Station pilot plant are scheduled for the afternoon.

The Institute of Gas Technology is the gas industry's educational and research facility.

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AILED: 10/25/57

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Ed O'Connell, Ext. 2384

FOR RELEASE: Immediate

Six instructors have been appointed to the faculty of Illinois Institute of Technology, Chicago.

They are: Jane Goslin and Gordon Martin, Institute of Design; William G. Franzen, mathematics; Joseph E. Halicki, technical drawing; and I-Chen Chang and Bernard R. Juskie, mechanics.

Miss Goslin, formerly an art teacher in Lebanon, Ohio, has worked with retarded children at Hull House, Chicago.

She received her bachelor's degree in art education from Peabody College, Nashville, and has done graduate work at the Chicago Art Institute and the Institute of Design of Illinois Institute of Technology. Miss Goslin lives at 5400 S. Greenwood Ave.

A free-lance artist and designer, Martin has been a lecturer on typography at the University of Chicago. He is the president of the Society of Typographic Arts, and is the organizer and director of the STA workshop at the Newberry Library, Chicago.

Martin has studied at the Studio School of Art and the Chicago Art Institute. He and his wife live at 1352 N. LaSalle St.

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MAILED: 10/28/57

Frazen formerly was assistant professor of mathematics at Aquinas College, Grand Rapids.

He received his bachelor's and master's degrees from the University of Miami, and has done graduate work at Michigan State University. Franzen, his wife, and two children live at 60 E. 32nd St.

Halicki received his B.S. degree in industrial engineering from IIT. He lives at 1634 W. Howard St.

Chang , formerly a structural engineer with John F. Meissner, Engineers Inc., has been an instructor at the University of Illinois at Navy Pier.

He received his B.S. degree from Chao-Tung University, his M.S. degree from the University of Oklahoma, and will receive his Ph.D. from Illinois Tech this year. Chang lives at 60 E. 32nd St.

Juskie received his bachelor's degree in civil engineering from the Missouri School of Mines and Metallurgy, and has done graduate work in mathematics and mechanics at IIT and the University of Illinois. He and his wife live at 3916 W. 57th Pl.

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FOR RELEASE: PM Wednesday, Oct. 30, 1957

Chicago--Volume of sponsored research soared to a record high at the Institute of Gas Technology, affiliate of Illinois Institute of Technology, during the 1956-57 fiscal year.

Sponsored research volume totaled $661,000--an increase of almost 20 per cent over the preceding year, it was announced by Dr. Martin A. Elliott, IGT director.

Elliott reviewed general operations of the Institute of Gas Technology, the gas industry's educational and research facility, at the annual meeting of members and the board of trustees today (Oct. 30) on the IIT campus.

The year's activities were highlighted by the inauguration of a four-year undergraduate scholarship program, an increase in the volume of basic research, and the largest volume of sponsored research in the Institute's history, Elliott said.

Most of the sponsored work at IGT was applied research, but the gas industry also sponsored several basic research projects, according to the IGT director.

"The number of such projects increased in the past year," he pointed out, "and it is hoped that this trend will continue."

"Basic research is the unsung hero of technologic progress," said Elliott. "The simple objective of basic research--the creation of new knowledge--has given us today's advanced technology, and must continue to be fostered in plans for our future progress."

MAILED: 10/28/57

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The sponsored basic research, along with the sponsored applied research in the fields of gas transmission, distribution, production and processing, and fuel utlization, represents a broad attack on the gas industry's problems, both current and long range.

Elliott also reported that the Institute's four-year undergraduate scholarship plan, announced at the last annual meeting, was inaugurated during the year. Five freshmen and one sophomore currently are enrolled in the program, in which the IGT offers four-year tuition-only scholarships in the gas technology option in either chemical or mechanical engineering.

A curriculum leading to the Master of Science degree in gas engineering was developed during the year with the Graduate Committee of Illinois Institute of Technology. This committee also reviewed and approved the gas institute's two-year program leading to the Master of Gas Technology degree and the program leading to the Ph.D. degree.

"Inasmuch as our graduate program was subjected to the same review as that of a regular department of Illinois Tech, the Graduate Committee granted the Institute of Gas Technology affiliated departmental status in the IIT Graduate School," Elliott announced.

The gas institute increased its staff from 63 to 73 full-time persons to handle the greater volume of sponsored research during the fiscal year.

"Even with this increase in staff," Elliott pointed out, "we still are trying to obtain additional personnel, particularly for the education and basic research programs."

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Areas of basic research in which IGT participated during the year include physical properties of gases, new techniques for gas analysis, gas-making reactions, combustion, and applications of nuclear science.

Sponsored research included projects on gas transmission, gas distribution, production of high-Btu gas from coal and oil, peak load gas processes, catalyst research, petrochemicals, utilization research, and energy studies.

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FOR RELEASE: Immediate

Chicago--E. J. Boothby, president of Washington Gas Light Co., has been re-elected chairman of the board of trustees of the Institute of Gas Technology, affiliate of Illinois Institute of Technology.

Eight trustees were re-named to the board and three new trustees were elected during the 16th annual meeting of members and the board of trustees today (Oct. 30) in the Institute of Gas Technology Building on the Illinois Tech campus.

Eskil I. Bjork, chairman of the board, The Peoples Gas Light & Coke Co., Chicago, has been elected to a three-year term on the board.

Elected to fill vacancies on the board which expire in 1959 are Gerald T. Mullin, president, Minneapolis Gas Co., Minneapolis, Minn., and R. A. Puryear, Jr., president, Alabama Gas Co., Birmingham, Ala.

Re-elected to three-year terms are: F. M. Banks, president, Southern California Gas Co., Los Angeles, Calif.; E. J. Boothby, president, Washington Gas Light Co., Washington, D.C.; James D. Cunningham, president, Republic Flow Meters Co., Chicago; E. H. Eacker, president, Boston Gas Co., Boston, Mass.

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MAILED: 10/30/57

Also: Robert A. Hornby, president, Pacific Lighting Corp., San Francisco, Calif.; George T. Naff, president, Texas Eastern Transmission Corp., Shreveport, La.; J. Theodore Wolfe, president, Baltimore Gas and Electric Co., Baltimore, Md., and George S. Young, president, Columbia Gas System, Inc., New York.

Officers of the Institute of Gas Technology are: Dr. John T. Rettaliata, president; Raymond J. Spaeth, secretary-treasurer, and Dr. Martin A. Elliott, director.

The Institute of Gas Technology is the educational and research facility of the utility gas industry. It is located at 17 W. 34th St., Chicago.

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FOR RELEASE: On or After Monday, Nov. 4, 1957

The 11th annual Illinois Tech Prep Basketball Tournament--largest of its kind in the nation--will be held Dec. 20 through 28, according to Bernard (Sonny) Weissman, Illinois Institute of Technology athletic director.

The tourney will be staged at the International Amphitheatre, 42nd and Halsted Sts., on Chicago's south side.

Invitations and entry blanks will be mailed during the first week of November to Chicago public high schools eligible for the tournament. Deadline for entries is 5 p.m. Dec. 9, at which time drawings will be made.

Preliminary games will be played Friday, Dec. 20. First and second round games will take place Dec. 21 and 23. The consolation and championship games are scheduled for the evening of Dec. 28.

Forty schools participated in the single elimination tournament last year when Phillips won its first tourney title by defeating Crane Tech, 63-59.

Du Sable won the title in 1955 by overcoming Crane Tech. In 1954 Dunbar Trade School won the championship with a triumph over Parker. Du Sable held the title for two consecutive years prior to that, with triumphs over Marshall in 1953 and Roosevelt in 1952.

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Roosevelt was the champion in 1951 and Von Steuben took first place in 1950. Marshall took the tourney championship for three straight years prior to that.

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FOR RELEASE:

F I L L E R S

Only six of every 10 of the top five per cent of high school graduates go to college, says Dr. John T. Rettaliata, president of Illinois Institute of Technology, Chicago.

Portable buildings supported by air for temporary shelter of construction materials are a recent development. The shelters are made of a waterproof, air-tight, translucent fabric.

Students at Illinois Institute of Technology, Chicago, received $428,683 in scholarship awards covering tuition and subsistence during the 1956-57 year.

New techniques to obtain basic data on fluids has been developed at the Institute of Gas Technology of Illinois Institute of Technology, Chicago.

Jet streams--fast, high altitude currents of air traveling from west to east--are being used for "piggy-back" rides by aircraft, often boosting ground speeds of aircraft by as much as 50 per cent.

MAILED: 11/1/57

Bark, a waste product of the lumber industry, is now being converted into an unusually effective soil builder in a method developed by Armour Research Foundation of Illinois Institute of Technology, Chicago.

American scientific and technological superiority will continue to hold Russia at bay in spite of her success in launching the earth's first satellite, according to Dr. John T. Rettaliata, president of Illinois Institute of Technology, Chicago.

An ultra-hard glass with melting point close to that of silver is now being used in scientific equipment. The equipment is especially desirable because of the low coefficient of expansion of the glass.

A "vortex thermometer" recently developed at Armour Research Foundation of Illinois Institute of Technology, Chicago, assists aircraft in locating jet air streams and position of maximum velocity by giving immediate readings on temperatures changes.

The Air Force ROTC detachment at Illinois Institute of Technology, Chicago, has been cited by the Illinois Wing Air Force Association for being judged the outstanding unit in Illinois for 1957.

Jet engines that now power supersonic aircraft are expected to be "prime movers" of industry in the future, as well as a means to change nuclear power to usable electric energy.

Rings are rings, but Saturn's rings are snow. Infrared spectrometers ultrasensitive to invisible infrared light rays were used by a prominent American astromer in making the discovery.

The average starting salary paid to 1957 electrical engineering graduates of Illinois Institute of Technology, Chicago, was $515 a month.

Electronic computers will aid airlines in seating passengers, it was revealed at a recent conference sponsored by Armour Research Foundation of Illinois Institute of Technology, Chicago.

Range of radar has been extended tenfold in a recently developed method that separates weak signals from background static, and amplifies them.

Free piston engines, producing pneumatic power in contrast to the mechanical power produced by the conventional crankshaft engine, may replace other internal combustion engines in many areas.

Smog and air pollution from automobile engine exhaust may be reduced significantly through a catalytic ceramic coating for piston heads under development at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Sponsored research conducted in the academic departments of Illinois Institute of Technology, Chicago, during the 1956-57 year totaled approximately $400,000.

Cunife, a new magnetic material, can be worked into permanent magnets as small in diameter as a human hair. The alloy does not require casting or sintering, but can be cold drawn.

The lowered electrical potential of the atmosphere resulting from atomic explosions does not affect weather conditions, it was reported at a recent international meteorological meeting.

Natural underground steam present in New Zealand is being harnessed as a source of energy rivaling the atom. Plants to be completed within a year will feed 69,000 kilowatts of electricity into New Zealand's power system by the steam utilization.

A total of 7,809 graduates and undergraduates have registered for day and evening classes at Illinois Institute of Technology, Chicago, for the 1957-58 fall semester.

s from
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Armour Research Foundation
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Sarah Henley, Ext. 2386

FOR RELEASE: On or After Thursday, Nov. 7, 1957

SPECIAL MONTHLY NEWS PACKET

Chicago--Good will is not spelled $$$$$.

"American libraries established throughout the world do as much, if not more, to create good will in foreign countries than all the money we ever could hope to pour into them," says Howard P. Vincent, chairman of the department of language, literature, and philosophy at Illinois Institute of Technology.

Vincent recently has returned from Europe where he was Director of Library Services for the United States Information Services in Paris.

He headed eight libraries in France which "give the French people an idea of America--its good points and its faults--through American literature."

"The French people--always ready to accept knowledge, information, and documentation to disregard blatant propaganda--flocked to the libraries," he said. "In the crowded winter months, people even sat on the floor to read."

More than 500 periodicals, plus fiction and non-fiction, reference books, and a small but well-rounded technical library, are handled by 27 French and American workers in Paris.

"Almost 50% of the readers are students," Vincent said. "Others are writers, businessmen, politicians, and teachers. Together they make up an influential audience...the audience we want to reach."

MAILED: 11/1/57

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Library Services also sponsors a presentation program, in which 100-book gifts of American literature are presented to the French universities which contain English departments.

"Teachers and professors especially told me that they are aided greatly by the USIS Library Service program. Before they had acquired a nucleus of reference about America, they had felt that they were teaching in a vacuum when they spoke of the United States."

Vincent, with the help of the six Fulbright professors in France, was in charge of choosing the university presentation books.

"We covered everything from 'Main Street" and 'Grapes of Wrath' to 'The House of the Seven Gables'--fiction, poetry, history, art, music. In other words, we covered American civilization," he said.

The service also includes a lending library of books in both French and English about America. In Paris alone, the reference service--another facet of the libraries--employs seven full-time girls who do nothing but answer telephone questions about the United States.

"And no one can tell us, after hearing some of the questions, that Europeans aren't interested in what Americans do and think," he added. "Questions were asked ranging from how many silk factories there were in Chicago (the Chicago Red Book helped answer that one) to who was the 23rd President of the United States."

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Darrell Vincent, Ext. 2384

FOR RELEASE: On or After Thursday, Nov. 7, 1957

SPECIAL MONTHLY NEWS PACKET

Chicago--Niobium--one of the new "wonder metals"--is a wonder only within limits.

Like all other metals, it's good for certain things and not for others, says David Levinson, supervisor of nonferrous metallurgy at Armour Research Foundation of Illinois Institute of Technology.

On the plus side, it has advantages of a high melting point, good corrosion resistance, and generally "good nuclear properties," all of which show promise for structural application in aircraft, missiles, and nuclear development, Levinson said.

It has a further advantage over such other "wonder metals" as tungsten and molybdenum because it has a lower density.

At the same time, niobium is heir to the most common problem of all high melting point metals--practically no resistance to oxidation at elevated temperatures.

"The promise of niobium for high temperature structural applications," Levinson said, "is in development of alloys which will resist oxidation, or in development of metallic or nonmetallic materials to coat it."

Coming to prominence after nearly a century of obscurity, niobium is being used presently as an addition to certain stainless steels for stress-corrosion resistance after welding.

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The metal--orginally known as columbium--was a "nice laboratory curiosity" until a short time ago, Levinson said. Its outstanding heat and corrosion resistance properties, however, have brought it forward as a promising structural material in missile and nuclear development.

The recent availability of pure niobium, in addition to making possible more accurate determination of other properties, has pointed up its excellent workability, Levinson said.

For example, it has been found that the cast pure metal can be "cold-rolled" or pressed without heat, which appears to be another advantage over molybdenum and tungsten, he said.

The metal itself has a melting point of 4,380 degrees Fahrenheit, Levinson pointed out. Further research should be able to produce alloys with usable strength at temperatures above 2,500 degrees Fahrenheit.

Fundamental research in this area already has been performed by Levinson's group, and future studies involving various combinations with niobium are being considered.

But a great many problems remain to be solved before niobium can be touted as a real wonder metal, Levinson said.

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FOR RELEASE: Immediate

Chicago--Lowering costs while expanding productivity will be the theme of the 12th annual Industrial Productivity Conference to be held Thursday and Friday, Dec. 5 and 6, at Illinois Institute of Technology.

"Increasing Industrial Productivity" will be discussed by keynote speaker Carroll W. Boyce, special projects editor of "Factory Management and Maintenance" at the general session Thursday morning in the Metallurgical and Chemical Engineering building, 10 W. 33rd St.

Ralph E. Cross, executive vice president of The Cross Co., will explain automation in the manufacturing industries at the noon luncheon. Luncheon speaker Friday will be Roger W. Bolz, editor of Automation magazine whose topic will be "Automation in Small Industries."

The conference is sponsored jointly by the IIT department of industrial engineering and the National Center of Education and Research in Dynamic Equipment Policy at Illinois Tech.

"We are interested in emphasizing all ways and means of increasing industrial productivity by showing industrial engineering tools and techniques applied to a variety of subjects," says conference director LeRoy A. Wickstrom, IIT instructor in industrial engineering.

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The program includes four simultaneous sessions--three panel discussions and a lecture--each morning and afternoon. Sessions will be held in various buildings on the IIT campus.

Chairmen and topics for the Thursday morning sessions are: better performance rating, Martin W. McDonough, chief production engineer, Cinch Manufacturing Corp. and president of the Chicago chapter of the Society for Advancement of Management; manufacturing automation, Samuel E. Rusinoff, professor of mechanical engineering, IIT; office work simplification, Floyd W. Simerson, assistant to the vice president in charge of factories, Sears, Roebuck & Co., and work sampling, Chester L. Brisley, industrial engineering manager, Wolverine Tube Division, Calumet & Hecla, Inc.

Thursday afternoon sessions include: maintenance of standards, Harold T. Amrine, chairman, department of industrial engineering, Purdue University; automatic assembly, Robert J. O'Brien, assistant manager, mechanical engineering research department, Armour Research Foundation; material handling savings, H. Raymond Swenson, assistant professor, industrial engineering department, IIT, and wage incentive management, Maurice D. Kilbridge, director, industrial engineering department, IIT.

Sessions Friday morning are: use of pre-determined times, William G. Hutchinson, general manager, Continental Scale Corp.; computers for management control, George J. Resnikoff, associate professor, industrial engineering department, IIT: equipment acquisition and replacement analysis, Gerald J. Matchett, director, National Center of Education and Research in Dynamic Equipment Policy, IIT, and incentives of indirect workers, Merle Schmid, professor, industrial management department, Purdue University.

Calumet Center.

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Friday afternoon sessions are: union policies on wage incentives, Pearce Davis, chairman, department of business and economics, IIT; electronic data processing, Leonard W. Swanson, manager in charge of operations research, Arthur Anderson and Co.; operations research applications, Thomas M. Ware, administrative vice president, International Minerals and Chemical Corp., and how to set standard data, H. Barrett Rogers, chairman, department of industrial management, Northwestern University.

Further information may be obtained from LeRoy A. Wickstrom, Industrial Engineering Department, Illinois Institute of Technology, Technology Center, Chicago 16, Ill.

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OR RELEASE: Immediate

Duke Ellington will be the featured band at Illinois Institute of Technology's annual Integral Ball Saturday, Nov. 9.

The Integral Ball, an all-campus semi-formal dance sponsored each year by the Illinois Tech Student Association, will be held from 8:30 to 12:30 p.m. in Crown Hall, 3360 S. State St.

Queen of the Integral Ball will be selected from five finalists by the following judges: Dean of Students Clarence E. Deakins, WAAF disk jockey Jerry Leighton, and Chicago Tribune columnist Maryon Zylstra.

The queen will receive a bracelet watch. Members of her court will receive cultured pearl necklaces. All finalists will be presented with the traditional red roses.

The affair has been partially financed by the sale of ad books, according to Cliff Roepke, ITSA social chairman. The books, containing messages from the president and the dean of students, will be distributed at the dance.

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OR RELEASE: At Will

A student conference explaining industrial engineering as a profession, a career, and a unique field of engineering will be held Friday, Nov. 29 at Illinois Institute of Technology, Chicago.

The conference, open to all interested junior college and high school upper-classmen, will be held from 1 to 4 p.m. in the IIT Metallurgical and Chemical Engineering building, 10 W. 33rd St.

Purpose of the conference is to explain industrial engineering as a profession and a career and to show how industrial engineering differs from other fields of engineering, according to Dr. Maurice D. Kilbridge, director of Illinois Tech's industrial engineering department.

Among subjects to be discussed are operations research, automation, electronic computers, systems analysis, production control, plant layout, and quality control.

The motion picture "Automation"--used on Edward R. Murrow's "See It Now" program--will be shown at the conference.

There is no conference charge. Further information may be obtained from Dr. Maurice D. Kilbridge, Industrial Engineering Department, Illinois Institute of Technology, Technology Center, Chicago 16.

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OR RELEASE: Immediate

The annual Marie Blanke scholarship tea will be held from 3 to 5 p.m. Sunday, Nov. 10 at Illinois Institute of Technology, Chicago.

Sponsored by the Illinois Tech Alumni Association, the afternoon's activities will include a tour of the new quarters of the home economics department in Carman Hall, 60 E. 32nd St.

Proceeds from the tea will go to the Marie Blanke Scholarship Fund, which provides cash scholarships to outstanding women students at Illinois Tech, according to Mrs. Alice A. Perreault, 405 S. Spring St., LaGrange, chairman of the alumnae committee.

Dr. Louise Mojonnier, home economics department chairman, will act as hostess in the department's new textile laboratories, experimental kitchens, dining rooms, and design and home planning facilities.

The Marie Blanke scholarships were begun in 1951 to honor the artist-art professor who retired in 1943 after nearly 50 years of teaching applied art at Lewis Institute, a predecessor to Illinois Tech.

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Members of the committee are: Mercedes L. Brown, 4231 N. Wolcott Ave.; Mrs. Florence P. Lewis, 1917 Clinton, Berwyn; Mrs. Fred G. Korth, 6027 N. Damen Ave.; Lois Graham, 3101 S. Wabash Ave.; Mrs. C. H. Reinhardt, Jr., 7514 N. Eastlake Terrace; Mrs. Joseph H. Reynolds, 308 E. 71st Pl.; Roberta Hoffmeister, 5013 W. Washington Blvd.; Edna L. Gaul, 5410 N. Wayne Ave.; Mrs. Leslie C. Hymes, 8036 S. Yale Ave., and Mrs. Chandler Sammons, 4900 Wolf Rd., Western Springs.

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OR RELEASE: WEDNESDAY, NOV. 6, 1957

Chicago--Society must rally to the support of the nation's efforts to increase its supply of scientific and technological manpower, Dr. John T. Rettaliata, president of Illinois Institute of Technology, declared last night (Nov. 5).

Speaking at a dinner of the Association of Iron and Steel Engineers, Rettaliata said solution of problems involved in the development of adequate professional personnel will require "greater public recognition of the importance of advancing the technology which sustains our high standard of living and national defense."

The dinner, held at the South Shore country club by the association's Chicago section, was in observance of the fiftieth anniversary of the organization's founding.

Several years of declines in the numbers of scientists and engineers graduated by the colleges and universities have resulted in a "grave" situation which constitutes a threat to the country's security "at a time when there is desperate need that this nation win the race for weapons superiority," Rettaliata said.

The total graduates in science and engineering, he added, declined from nearly 110,000 in 1950 to less than 54,000 in 1955. In 1956, he continued, the number of engineering graduates was about 26,000, compared with an estimated need of 40,000 new engineers for industry alone.

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"The task of preparing engineers for industry...is a responsibility that must be shared by all who are interested in the welfare of our nation--business and industry, taxpayers, educators, political leaders and parents," he said.

He urged greater public support of improved preparatory education for professional careers, and public acceptance of responsibility for encouraging talented youth to pursue careers in science and engineering.

Describing the high schools as a great reservoir of potential engineering and scientific talent, Rettaliata added:

"Recognizing that the effectiveness of modern industry as well as modern weapons depends upon an adequate supply of properly educated manpower, we must take a major effort to bridge the gap between high school and college to eliminate or reduce the loss of potential scientific and engineering talent through the failure of large numbers of college caliber high school graduates to continue their education at the higher level."

He suggested increased aid to needy students through scholarships, loan funds, and part-time and summer employment.

The quest for more engineers and scientists should not omit an effort to enlist more women in these professions, he added.

He said that only 1¼ per cent of the engineering profession are women, which is less than the proportion in each of the professions of law, college teaching, journalism, and medicine. Only one half of one per cent of engineering college students are women.

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Referring to a need for broadening the engineering curriculum in the fields of the humanities and social sciences, Rettaliata described progress in this direction as "a major development in technological education."

Illinois Tech, he said, has arrangements with 30 midwestern liberal arts colleges under which the student spends the first three years at the liberal arts college and the next two at IIT, receiving at the end of the five years a bachelor of arts degree from the liberal arts college he attended and a bachelor of science degree in engineering from Illinois Tech.

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R RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: CAKE-CUTTING IN OBSERVANCE OF U.S. MARINE CORPS BIRTHDAY

Time and Place: 12:15 P.M. MONDAY, NOV. 11, ALUMNI MEMORIAL HALL, 3201 S. DEARBORN ST.

The Marine officers of the NROTC staff and U.S. Marine midshipmen candidates at Illinois Institute of Technology will observe the 182nd anniversary of the United States Marine Corps on Monday, Nov. 11, at IIT's Alumni Memorial Hall, 3201 S. Dearborn St.

A short ceremony will be climaxed by the cutting of a huge cake by Major Louis Baeriswyl, Jr., USMC, Marine officer instructor at IIT. Candidates in uniform, ceremonial sword-cutting of the cake, and colorful Marine uniforms will provide excellent picture possibilities.

You are invited to send a photographer/reporter. I will be on hand to assist your representative.

--Sarah Henley
CAlumet 5-9600
Ext. 2386

AILED: 11/7/57

from
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R RELEASE: Immediate

The fabrication of a new type of structure used in aircraft and missile construction will be described at the fourth annual Midwest Welding Conference to be held in Chicago on Jan. 29 and 30.

Frank J. Filippi, project liaison engineer, Solar Aircraft Co., San Diego, Calif., manufacturer of the material which has a high strength-to-weight ratio, will explain the process in a paper titled "Fabrication of Brazed Honeycomb Sandwich Panel."

Filippi will speak at the Jan. 29 afternoon session of the two-day conference sponsored by Armour Research Foundation of Illinois Institute of Technology and the Chicago Section of the American Welding Society.

The conference will be held in the Illinois Tech Chemistry Building at 3255 S. Dearborn St. Approximately 300 welding engineers and others interested in new developments in welding and brazing are expected to attend.

Two other papers to be presented at the afternoon session are "Novel Production Brazing Applications," by A. M. Setapen, manager of the engineering division, Handy and Harman, New York, and "Brittle Fracture" by P. P. Puzak, head of the welding section, U. S. Naval Research Laboratory, Washington.

Nine additional papers to be given at the conference are:

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Jan. 29, morning--"A User Reports on T-1 Steel," by Perry C. Arnold, welding engineer, Chicago Bridge and Iron Co., Chicago; "Design for Welding," by Omer W. Blodgett, design consultant, Lincoln Electric Co., Cleveland, and Jay Bland, head of metals and welding section, engineering research department, Standard Oil Co., Whiting, Ind.

Jan. 30, morning--"Recent Developments in Power Sources for Welding," by Warren Sykes, chief electrical enginer, Miller Electric Manufacturing Co., Appleton, Wis.; "New Techniques in Welding Aluminum," by F. R. Baysinger, head of welding branch, metallurgical research department, Kaiser Aluminum and Chemical Corp., Spokane, Wash., and "Automatic Resistance Welding Applications," by Thomas C. Falter, welding engineer, Frigidaire division, General Motors Corp., Dayton, O.

Afternoon--"Manual Electrodes for Code Governed Weldments," by Amel R. Meyer, chief of welding research, Graver Tank and Manufacturing Co., East Chicago, Ind.; "A New Co_2 Welding Process," by A. F. Chouinard, manager of research and development department, National Cylinder Gas Co., Chicago, and "Nickel Alloy Welding of Dissimilar Alloys by Arc and Inert Gas Processes," by K. M. Spicer, assistant supervisor, mechanical engineering section, International Nickel Co., New York.

Session chairmen on Jan. 29 will be Z. J. Fabrykowski, supervisory welding engineer, research and development division, Ordance Tank-Automotive Command, Center Line, Mich., for the morning session, and E. D. Baugh, manager of metals and methods research, Continental Can Co., Chicago, for the afternoon session.

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The Jan. 30 chairmen will be L. C. Monroe, publisher of Welders Digest, La Porte, Ind., in the morning, and Thomas L. Dempsey, general manager, Industry and Welding, Cleveland.

C. E. Watson, assistant director, Armour Research Foundation, will open the conference with a welcoming address.

Inquiries concerning the conference should be sent to the conference chairman, Harry Schwartzbart, supervisor of welding research, Armour Research Foundation, 10 W. 35th St., Chicago 16.

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OR RELEASE: Immediate

Chicago--A wealth of European technological "know-how" is ripe for application by American industry.

This observation has been made by Irving D. Canton, assistant manager of the International Department of Armour Research Foundation of Illinois Institute of Technology.

Twenty American firms are beginning to reap benefits from European research and development techniques in a unique program conducted by the Foundation.

Under the program, a team of five ARF technologists, headed by Herbert B. Gausebeck, manager of European operations, are headquartered in The Hague, Netherlands, to study European technological developments of potential value in the American markets.

Since the program's inception in July 1956, a wealth of information on new products, processes, and research trends has been channeled back to the group of 20 non-competing American firms sponsoring the program.

The companies are divided into groups of four in each of five fields: mechanical engineering, electrical engineering, chemistry, chemical engineering and metallurgy.

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An observer of appropriate technical background is assigned prime responsibility for serving the four sponsoring companies in each of the technical fields, Canton explained. If, during the course of his travels, an observer runs across items of interest to sponsors in the other categories, this information is channeled back through the other observers.

As a result of the team's efforts, the ETOG program has:

--Led to the placing of several American firms in contact with their European counterparts to negotiate an exchange of product lines. One American company already is preparing to tool a European product in this country.

--Initiated negotiations between an American producer of mechanical devices and a European electronic devices manufacturer for an exchange of engineering information that will enable both firms to have a complete product line.

--Arranged for an exchange of research information in the chemical category whereby the American company may finance some of the European firm's research costs in exchange for first rights to utilize any products that may result from the research.

"Some of the participating companies are interested only in advance technological information that may set a trend," said Canton.

For these companies, he pointed out, ARF observers attend scientific meetings and conferences on the Continent and talk to persons conducting basic research in the fields involved.

The observers also establish contacts with European firms that enable American companies to obtain first rights to new products being marketed or developed in Europe.

Another aspect of the service is the feedback of information on products that can be used by the American company to diversify its activities and statistical information for techno-economic studies related to the firm's products.

Under the ETOG plan, observers also review scientific and technical literature for all participating companies to keep them informed of developments long in advance of the appearance of this data in U.S. technical publications.

The large technical staff provides wide geographical coverage, however, costs are kept to a minimum because of the large number of participating companies sharing the cost.

Because of the outstanding success of the program to date, the Foundation is adding other sponsoring companies to the program. A cement firm has been contracted in the new ceramics and building materials category, the first of four companies which will be accepted. An additional four companies are being sought in the mechanical industries.

"Interest in the ETOG program has been very enthusiastic," Canton commented. "However, one of the difficulties of expanding the number of sponsors is in contacting companies that do not conflict in major interests with the firms already in the program. The sponsoring companies prefer the non-competitive aspect of the program, since it allows them to gain exclusive benefit from the program in their field."

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OR RELEASE: Immediate

An important phase of missile and rocket development--high temperature research--will be the subject of a public lecture at Illinois Institute of Technology on Thursday, Nov. 14.

The free lecture, titled "Recent Advances in High Temperature Research," will be presented by Dr. Aristid V. Grosse, president of the Research Institute of Temple University.

Sponsored by the IIT chapter of the Society of Sigma Xi, the lecture will be a memorial to the late Dr. Vasili I. Komarewsky, professor of chemical engineering at Illinois Tech, and one of the nation's foremost developers of synthetic fuels.

It will be held at 8 p.m. in the IIT Chemistry Building auditorium, 33rd and Dearborn Sts

Komarewsky and Grosse, with two other Russian scientists, were invited to work for the American petroleum industry in 1931 and were brought to the U.S. by Gustav Egloff of Universal Oil Products Co.

Their work on the processes of polymerization, alkylation, and isomerization contributed to the high-octane aviation gasoline responsible in large part for the Allied air superiority in World War II.

Komarewsky, who died June 21 of this year, founded the first university laboratory in this country to be devoted to the teaching of catalytic phenomena at IIT in 1936.

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Grosse was the first scientist to isolate element 91, protoactiniam, in his doctorate work at the Technische Hochschule in 1937. He also is co-discoverer of numerous catalytic processes for synthetic rubber manufacture.

With co-workers, he proved the slow neutron fission of U-235, developed U-235 separation processes, and disclosed cosmic ray carbon. He has been active in high temperature research since 1948.

His talk will include discussion of high temperature production and measurement, and properties of matter at high temperatures. He will highlight recent advances in these areas based on research under his direction.

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FOR RELEASE: Immediate

John Scott, special assistant to the publisher of Time Magazine and noted Middle East authority, will speak Thursday, Nov. 14, at Illinois Institute of Technology, Chicago.

Kicking off this year's IIT lecture series, he will present "There Is an Answer to the Middle East Question" at 12:30 p.m. in the auditorium of the Student Union building, 47 W. 33rd St.

Scott, who for the past five years has traveled extensively in the Middle East, also has been a journalist and war correspondent in countries throughout Europe, Latin America, southeast Asia, and the United States.

He worked from 1932-37 in Siberian steel mills and chemical plants and was expelled from Russia in 1941--two weeks before the German attack against the U.S.S.R.--for "slandering" Soviet foreign policy and "inventing" reports of Soviet-German friction.

Scott is the author of "Behind the Urals," "Duel for Europe," and "Europe in Revolution." He and his family live in Ridgefield, Conn.

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ILLINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

News Supervisor: Miss Mildred Wyatt
Serving: Illinois Institute of Technology
Armour Research Foundation
of Illinois Institute of Technology
Institute of Gas Technology
Day Phone: CAlumet 5-9600, Extension 2385
Night Phone: DAnube 6-1965
For further information on this release, contact:
Ed O'Connell, Ext. 2384

FOR RELEASE: Immediate

Howard B. Dearstyne, noted architect and authority on 18th century colonial architecture, has been appointed lecturer in architecture at Illinois Institute of Technology, Chicago.

He will teach architectural design and the history and analysis of art.

Co-author of several books on colonial Williamsburg and Virginia, Dearstyne was an editor in the Colonial Williamsburg architectural records office for 10 years. During the same period, he was lecturer at the College of William and Mary.

Dearstyne received his B.A. degree from Columbia College and completed work toward a diploma in architecture at the Bauhaus in Germany, the only American ever to receive a Bauhaus diploma. His studies and work have taken him to Europe, Asia Minor, and Africa.

The author of many articles on architecture and photography, Dearstyne is listed in "Who's Who in the South and Southwest" and the "Directory of American Scholars".

He is a member of the American Institute of Architects, a past director of the Society of Architectural Historians, and a former vice president of the Virginia Art Alliance.

Dearstyne and his wife live at 3140 S. Michigan Ave.

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For further information on this release, contact:
Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

The Illinois Institute of Technology Woman's Club will hold its annual Julia Beveridge scholarship fund dinner Nov. 16.

The dinner will aid in fund-raising for the one-year Julia Beveridge scholarship--awarded each year to an outstanding sophomore man or woman at Illinois Tech, according to Miss Mary Williams, 3101 S. Wabash Ave., president of the Illinois Tech Woman's Club.

Faculty and staff members, their wives, husbands, and guests will attend the dinner at 6:30 p.m. in the Commons Building, 3200 S. Wabash Ave.

Mrs. Paul Gordon, 7442 S. Chappel Ave., is chairman of the scholarship committee.

The after-dinner program committee is headed by Mrs. Harold Bretz, 3101 S. Wabash Ave., and Mrs. Clarence Deakins, 3100 S. Michigan Ave. Typifying the excitement of Chicago, the program script will feature Carl Sandburg's poetry, color transparencies, and music under the direction of H. E. Nutt, director of music at IIT. Dancing will follow.

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FOR RELEASE: PM THURSDAY, NOV. 14, 1957

Chicago--If the United States doesn't do something fast in the Middle East, the Russians or some Arab strongman like Nasser will do it for us.

John Scott, special assistant to the publisher of Time Magazine, voiced this opinion today (Nov. 14) at the first of the Illinois Institute of Technology forum lecture series.

"Time is running out in the Middle East," Scott said. "Now is the time to start mobilizing statesmen, engineers, economists, and lawyers. This is a national emergency."

He explained that leadership, not money, was needed principally.

"Never has a country been better placed to furnish leadership than the United States--with creative diplomacy, expressed in a comprehensive program for political stability and economic development," Scott said.

His proposal for a short-range United States mobilization program includes the following points:

--Demands of the Egyptians, the users, and the old owners of the Suez Canal must be worked out by compromise.

--Either a new canal must replace the now-obsolete Suez, the present canal deepened and double-tracked, or a large oil pipeline must be constructed from the Red Sea to the Mediterranean.

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--Islands used to blockade the Israeli port of Elath must be demilitarized and perhaps placed under UN trusteeship.

--Iraq and Jordan must be encouraged to merge.

--Oil companies should be encouraged to increase royalties to Israel, Syria, and Lebanon.

--The Gaza Strip should be placed either under UN administration or Israeli administration; the 220,000 refugees living there should have a choice of being absorbed into Israel or being resettled elsewhere.

--The Israelis must be persuaded, under threat of cutting off their public aid, to assume more responsibility for the 650,000 Arab refugees now living in Jordan, Lebanon, and Syria.

--Israel and its neighbors must be forced, under pain of economic sanction, to sign peace treaties and disarmament plans.

--U.S. policy on the Baghdad pact should be reviewed.

Scott's long-range plan, however, involves what he calls the central problem of the Middle East--water.

"There are five possible sources of water for the Middle East," he says, "and they are being utilized more fully than previously. They are rainfall, the conversion of sea water for irrigation, the Nile, the Jordan, and the Tigris and Euphrates Rivers."

The Tigris and Euphrates Rivers, he says, are the real hope for the Middle East. If a trust fund for Middle East development were established, large numbers of new farmers could be settled in the Tigris-Euphrates valley.

The fund, explained Scott, could come partly from the huge fortunes of the King of Saudi Arabia and the Shaikh of Kuwait--plus an equal amount from the rich oil companies and the economic aid already coming to the Middle East from public and private funds.

Administration of the fund should be left up to the General Assembly of the UN or to the combined Arab states, he concluded.

-mmw-

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

A new full tuition scholarship has been established at Illinois Institute of Technology, Chicago, by the Bendix Aviation Corp., Detroit, Mich.

The annually-sponsored recognition award will be called the Bendix Aviation Corporation Honors Scholarship, and will be awarded to an outstanding senior student majoring in engineering or science at IIT.

Choice of the scholarship recipient will be made by the Illinois Tech scholarship committee.

The scholarship, starting in the fall of this year, is being established at 30 other engineering and scientific institutions.

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FOR RELEASE: TUESDAY, NOV. 19, 1957

Chicago--A record volume of research was conducted by Armour Research Foundation of Illinois Institute of Technology during the 1956-57 fiscal year.

The Foundation's gross volume advanced to $14,067,534--an increase of more than $2 million or 18 per cent over the preceding year, it was announced by Dr. Haldon A. Leedy, ARF director.

"Armour Research Foundation enjoyed one of the best years in its 21 years of service to industry and government during 1956-57," said Leedy.

"It was a year marked by over-all improvement and expansion," he explained, "particularly in the areas of research performance, scientific manpower, and plant facilities."

Leedy pointed out that emphasis in Armour Research Foundation's research operations during the last fiscal year was on quality of staff and performance.

"A conscientious effort was made to upgrade the technical proficiency of the Foundation without sacrificing volume," he said. "How well this was accomplished is reflected in the results."

A record 734 research projects--more than ever before--were conducted during the year. This includes 404 projects for industry and 330 for government.

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In addition to its research in the United States, ARF conducted projects in nine foreign countries--the most ever recorded in a single year.

One of these projects was the European Technical Observation Group plan, designed to keep American industry informed of technological developments on the Continent, according to Leedy. Twenty companies currently are participating in the program, and four more are expected to join the plan during the coming year.

The Foundation's expenditures for self-sponsored research and for research services of benefit to the general public were increased to 4 1/2 per cent of the total research activity during the fiscal year.

The year also marked completion of the Foundation's move into its $1,300,000 Physics and Electrical Engineering Research Building and the start of construction on a $1,215,000 addition to the Metals Research Building.

Plans also were formulated for a new Chemistry and Chemical Engineering Research Building, which is expected to be completed by 1959. This building will consolidate the activities of the chemistry and chemical engineering research department now housed in four buildings on the Illinois Tech campus.

"The three projects are part of a multi-million dollar expansion program, initiated in 1956, which will make the Foundation one of the most modern and complete industrial research centers in the world when completed in 1966," stated Leedy.

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Another major addition to the physical plant was a 175-acre leased area near Elgin, Ill., which is being used as a field laboratory, primarily for chemical and mechanical engineering research.

Armour Research Foundation ended the fiscal year with a staff of 1,290--a new high in the history of the Foundation. Most of the 53 additions since the previous year occurred in the professional staff, which now totals 867.

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FOR RELEASE: Immediate

Chicago--Fifty Illinois deans and advisers of men will discuss problems ranging from admissions policies to what to do about automobiles on a college campus on Monday, Nov. 18, at Illinois Institute of Technology.

Dean Clarence E. Deakins, IIT, will be host for the group--the 18th annual meeting of the Illinois Association of Deans and Advisers of Men--in the Commons building, 3200 S. Wabash Ave.

The morning session will include a discussion of admissions policies of the University of Illinois by George Dinamore, examiner, office of admissions, University of Illinois.

"The Role of Student Government" will be discussed by student officers from Elmhurst College, Illinois Tech, Lake Forest College, Northwestern University, Roosevelt University, and University of Illinois.

After lunch, a general discussion session covering housing, automobiles on campus, scholarships, and admissions will be led by Dean Rudolph D. Anfinson, Eastern Illinois State College.

The day-long conference will be followed by a guided tour of the Illinois Tech campus.

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For further information on this release, contact:

FOR RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: TOY COLLECTION FOR ADA S. MCKINLEY COMMUNITY HOUSE

Time and Place: 1 P.M. TUESDAY, NOV. 19, IN THE LOBBY OF THE ILLINOIS INSTITUTE OF TECHNOLOGY STUDENT UNION BUILDING, 33RD AND FEDERAL STS.

As a benefit for the children of Ada S. McKinley Community House, 100 E. 34th St., an annual Toy Harvest will be sponsored by Kappa Phi Delta sorority and Triangle fraternity at Illinois Tech.

Toys will be used as admission for the Toy Harvest Dance Friday, Nov. 22, in the IIT Commons building, 3200 S. Wabash Ave. Besides the toys, all profits from the dance go to the community house.

Illinois Tech coeds collecting the toys will be available for photos, with toys, at 1 p.m. Tuesday, Nov. 19, in the lobby of the Student Union, 33rd and Federal Sts.

You are invited to send a photographer. I will be there to assist.

Sarah Henley
Calumet 5-9600
Ext. 2386

MAILED: 11/15/57

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For further information on this release, contact:
Darrell Vincent, Ext. 2384

FOR RELEASE: Immediate

HiCal, a new high energy boron fuel which some sources suspect may be similar to what propelled Sputnik II into space, will be on public display for the first time during the 26th Chemical Industries Exposition in New York, Dec. 2 to 6.

The new fuel, which should power jet aircraft and missiles to new peaks of efficiency and performance, was developed for the Navy by Callery Chemical Co., Pittsburgh, Pa.

Greater energy provided by HiCal can extend the range of aircraft or missiles, reduce the weight of airframes, increase payloads, or improve speed and climb.

Also, the fuel can be used efficiently at altitudes where ordinary fuels will not burn.

Armour Research Foundation of Illinois Institute of Technology, Chicago, has participated in the development of the fuel since 1953 as a subcontractor on the research program.

Advanced phases of the work are continuing at ARF and other research organizations.

Callery has been engaged in the study of high energy chemical compounds since 1948. In 1952, the Navy awarded the company a contract to develop these compounds as fuels for military applications.

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MAILED: 11/18/57

Initial production quantities of HiCal will be produced in Callery's commerical plant at Lawrence, Kan. Callery also is building and will operate for the Navy a $38 million plant at Muskogee, Okla., scheduled for completion by the end of 1958.

A sample of the fuel will be featured, along with other new boron products, in the Callery display at the exposition.

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Sarah Henley, Ext. 2386

OR RELEASE: Immediate

Donald F. Clifford, 28 E. 113th St., has been elected captain of the 1957-58 Techawk basketball squad at Illinois Institute of Technology, Chicago.

Clifford, a senior in mechanical engineering, has won three varsity awards in basketball and also is captain-elect of the Techawk baseball squad.

The son of Mr. and Mrs. John Clifford, he is a graduate of Carmelite Junior Seminary, Hamilton, Mass., and also has attended Mount Carmel High School, Buffalo, N.Y.

He holds the Procon Scholarship, awarded to outstanding senior students in civil and mechanical engineering.

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MAILED: 11/18/57

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FOR RELEASE: Immediate

The Navy's earth satellite program--project Vanguard--will be discussed in a public lecture at Illinois Institute of Technology, Chicago, on Wednesday, Nov. 20.

Dr. Joseph W. Siry, head of the theory and analysis branch of the Naval Research Laboratory's project, will discuss "The Vanguard Earth Satellite Program" at a joint meeting of the Illinois Tech Mechanics Colloquium and the Chicago section of the Institute of Aeronautical Sciences.

The lecture will be held at 8 p.m. in the IIT Chemistry Building auditorium, 33rd and Dearborn Sts.

Included will be details of the launching vehicle system, the proposed satellite orbit, and the satellite tracking system.

Siry joined the staff of the Naval Research Laboratory in 1946 as physicist in the newly-formed Rocket Sonde Research Branch. He was acting head of the theoretical analysis section in the same branch from 1951 to 1953, and a consultant from 1953 to 1956.

He also has served as executive secretary of the upper atmosphere rocket research panel's special committee for the International Geophysical Year.

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Mildred Wyatt, Ext. 2385

OR RELEASE: Immediate

Chicago--Dr. John T. Rettaliata, president of Illinois Institute of Technology, will address the final meeting in the eighth Young Engineers' Forum on Thursday, Nov. 21.

Rettaliata will discuss "Engineering Education" at 6:30 p.m. in the headquarters of the Western Society of Engineers, 84 E. Randolph St.

Sponsored by the Western Society of Engineers, the Forum series of six meetings has been designed to provide young engineers with a broader horizon of the role of engineering. A group of 100 young Chicago engineers are participating in the series.

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For further information on this release, contact:
Frank Judd, Ext. 2392

FOR RELEASE: At Will

The 20th anniversary meeting of the American Power Conference will be held March 26-28, 1958, at the Hotel Sherman, Chicago.

The conference, sponsored annually by Illinois Institute of Technology in cooperation with 14 colleges and universities and nine technical societies, provides a forum for discussion of problems and exchange of information concerning the electric power industry and associated activities, including utilization, conservation, fuels, water technology, research, maintenance, sales and management.

It is attended each year by 3,000 or more business and industrial executives, power industry officials, engineers, educators, and government officials.

The colleges and universities cooperating in the conference are Illinois, Iowa, Iowa State, Michigan, Michigan State, Northwestern, Purdue, Minnesota, Wisconsin, Texas A. & M., New York, California Institute of Technology, Georgia Institute of Technology, and Massachusetts Institute of Technology.

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The cooperating societies are American Institute of Chemical Engineers, American Institute of Electrical Engineers, American Institute of Mining, Metallurgical and Petroleum Engineers, American Society of Civil Engineers, American Society of Heating and Air Conditioning Engineers, American Society of Mechanical Engineers, National Association of Power Engineers, Western Society of Engineers, and Engineers' Society of Milwaukee.

Inquiries concerning the conference should be addressed to conference director R. A. Budenholzer, mechanical engineering department, Illinois Institute of Technology, 3300 Federal St., Chicago 16.

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Sarah Henley, Ext. 2386

OR RELEASE: Immediate

More than 300 students from Illinois Institute of Technology, Chicago, will form a Students' March for Muscular Dystrophy Monday, Nov. 25.

The fraternity men's march, sponsored by the IIT Interfraternity Council, will be a canvass of Near North and North Lake Shore Drive areas the day before the all-city muscular dystrophy march.

A check for the money collected will be accepted by Fran Allison, radio-TV star and chairman of the Chicago March for Muscular Dystrophy, at an all-campus dance Dec. 7 in IIT's Student Union building, 47 W. 33rd St.

Fraternities included in the march are: Alpha Epsilon Pi, Alpha Sigma Phi, Daedalians, Delta Lambda Xi, Delta Tau Delta, Phi Kappa Sigma, Pi Kappa Phi, Sigma Phi Epsilon, Tau Epsilon Phi, Theta Xi, and Triangle.

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For further information on this release, contact:

OR RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: VICTIMS OF MUSCULAR DYSTROPHY VISIT ILLINOIS INSTITUTE OF TECHNOLOGY CAMPUS

Time and Place: 1:30 P.M. THURSDAY, NOV. 21, IN THE LOBBY OF THE IIT CHEMISTRY BUILDING, 3255 S. DEARBORN ST.

Five small boys who have been stricken with muscular dystrophy will be treated to a tour of the Illinois Tech campus and lunch at five fraternity houses Thursday, Nov. 21.

A chemistry "magic show" will be part of their agenda--and the youngsters watching the man whose hands "catch fire", flames which race across a table but do not burn, a human flame thrower, and experiments with bubbling liquid air present excellent picture possibilities.

The fraternity men escorting the children will be part of the 300-strong IIT Students' March for Muscular Dystrophy Monday, Nov. 25.

You are invited to send a photographer/reporter. I will be on hand to assist.

Sarah Henley
CAlumet 5-9600
Ext. 2386

AILED: 11/19/57

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FOR RELEASE: Immediate

Deadline for freshmen scholarship applications for the February, 1958 semester at Illinois Institute of Technology, Chicago, will be Nov. 25.

Several one-year scholarships are available for men and women entering college in liberal studies, science and engineering, and design for the next semester, according to director of admissions Philip B. Lottich.

Applicants must meet the following qualifications:

--Be a January, 1958 graduate of an accredited high school.

--Be in upper quarter of high school class.

--Submit written recommendation from high school principal or counselor.

--Be qualified for admission as outlined in the Institute catalog.

In addition to the scholarship application, all those desiring to be considered for a scholarship must complete the official admission procedure, including the Illinois Tech entrance examination.

Further information may be obtained from: Director of Admissions, Illinois Institute of Technology, Technology Center, Chicago 16, telephone CAlumet 5-9600, Ext. 433.

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FOR RELEASE: Immediate

Oliver J. Kendall has been named senior research analyst in the engineering economics research department of Armour Research Foundation of Illinois Institute of Technology, Chicago.

The appointment of Kendall, a former professional management consultant, was announced by John K. Diederichs, department manager.

As senior research analyst, Kendall will develop and coordinate the engineering economics department's research in industrial engineering, according to Diederichs.

Prior to joining the Foundation, Kendall was on the staff of the production manager of the Chicago Tribune for three years. He also worked as a professional consultant at Booz, Allen and Hamilton, management consultants, and as an industrial engineer at Montgomery Ward & Co., Western Electric Co., and Armour & Co.

Kendall received a bachelor of science degree in industrial engineering from Northwestern University in 1942. During World War II, he spent 4 years in the Army Air Force as combat intelligence officer.

Kendall, his wife, and three children live at 2107 Lincoln St., Evanston, Ill.

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FOR RELEASE: Immediate

The Loop observed its cleanest month so far this year during October.

Only 73.4 tons of dust per square mile fell on the downtown area, "real clean" when compared with the year's high Loop average of 166.3 tons in January, said Samuel Radner, research chemical engineer at Armour Research Foundation of Illinois Institute of Technology.

Over-all average for the city in October was 43.7 tons per square mile, a 7.7 ton increase over the September average, but still a considerable improvement over the 62.6 tons in October a year ago.

At the same time, this October's heating demands were more than two times as great as they were last year, Radner pointed out. Ordinarily, this would show up as increased dustfall.

However, the month this year had 10 times more rain that it did last year, which appears to have washed away a large portion of the city's street dust and reduced recirculation by wind and traffic.

The city's lowest reading for the month was recorded by the station at 7350 Pratt Blvd., with only 16.5 tons of dust per square mile.

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MAILED:
11/20/57

October dustfall--add 1

Here are the station averages for the month, along with their percentages above or below the October city average:

Station Address Station Address	Ward No.	Total Dustfall	P.Ct. Above- Below City Avge.
The Fair Store	1	75.8	+73
33 N. LaSalle St.	1	71.0	+63
Loop Average		73.4	+68
2135 S. Michigan Ave.	1	49.3	+13
825 E. 44th St.	4	38.8	-11
1362 E. 59th St.	5	25.9	-41
7531 Stony Island Ave.	7	62.8	+44
67 W. 113th Pl.	9	31.7	-27
8858 Marquette Ave.	10	54.3	+24
2240 W. 37th St.	12	57.7	+32
3105 W. 63rd St.	13	31.3	-28
62nd and Linder	13	38.0	-13
7559 Eggleston Ave.	17	29.3	-33
1620 W. 99th St.	19	28.5	-35
3608 Ogden Ave.	22	68.0	+55
1340 W. Monroe St.	26	47.6	+ 9
5055 Fulton St.	30	33.2	-24
1513 N. Western Ave.	32	36.9	-16
5602 Belden Ave.	36	45.0	+ 3
3312 Belle Plaine Ave.	40	40.1	- 8
7350 Pratt Ave.	41	16.5	-62
54 W. Hubbard St.	42	49.6	+13
551 Grant Pl.	44	35.1	-20
3532 Sheffield Ave.	46	67.4	+54
1622 Pratt Bl.	49	45.7	+ 4
Average		43.7	

-mmw-

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

Nine members of the faculty of Illinois Institute of Technology, Chicago, have received academic promotions effective Sept. 1, it was announced by President John T. Rettaliata.

They are: to the rank of professor, Dr. Maurice D. Kilbridge, industrial engineering; to the rank of associate professor, Eugene Dana, Institute of Design; to the rank of assistant professor, Dr. Robert J. Malhiot, physics, E. Ray Pearson, Institute of Design, Dr. Basil J. Reitzer, chemical engineering, Dr. Ira G. Salisbury, psychology, Dr. Abe Sklar, mathematics, Mrs. Marie W. Spencer, economics, and Dr. Ralph J. Tykodi, chemistry.

Kilbridge received his bachelor's and master's degrees in mathematics from Loyola University, his master's degree in industrial engineering at IIT, and his Ph.D. in industrial engineering at the State University of Iowa.

He has taught mathematics at Loyola University, as well as having been methods engineer at Miehle Printing Press and Manufacturing Co. and industrial engineering and training director at Spiegel, Inc.

Kilbridge was granted a leave of absence from 1954-56 as a member of the Harvard University advisory mission to the planning board of the government of Pakistan. He lives at 3101 S. Wabash Ave.

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Dana, before joining the IIT Institute of Design staff, had taught at the University of Michigan, Drake University, Brooklyn College, and in the Minneapolis public school system.

He holds a bachelor's degree from the University of Wisconsin and a master of design degree from the University of Michigan. He also studied at the St. Paul School of Art. Dana lives at 6717 S. Jeffery Blvd.

Malhiot received his bachelor's degree from the University of Denver, and his master's and Ph.D. degrees from IIT. He has been a development engineer for the Western Electric Co.

He, his wife, and two children live at 326 N. Long Ave.

Pearson received a bachelor's degree from IIT. He had worked in various architectural offices before joining the staff of IIT's Institute of Design.

He was sent by the Mutual Security Agency as one of a team to conduct a design seminar in Oslo, Norway, for Scandinavian educators, architects, and designers. He and his wife live at 613 W. Belden Ave.

Reitzer has been chief process engineer at Guardite Co. and assistant project engineer for Standard Oil Co. of Indiana. He received his bachelor's, master's, and Ph.D. degrees from Northwestern University.

He, his wife, and two children live at 1237 Heatherfield Lane, Glenview.

Salisbury received his bachelor's and master's degrees from the University of Michigan and his Ph.D. from Illinois Tech. He was on the staff of the University of Illinois before coming to IIT.

He, his wife, and child live at 1345 S. 61st Ave., Cicero.

Sklar received his bachelor's and master's degrees from the University of Chicago and his Ph.D. from California Institute of Technology. He resides at 3120 W. Ainslie St.

Mrs. Spencer received her bachelor's degree from Lewis Institute and her master's degree from the University of Chicago. She has been on the faculty of Illinois Tech since 1925.

Mrs. Spencer currently is resident counselor for women's housing on the Illinois Tech campus. She lives at 60 E. 32nd St.

Tykodi received his bachelor's degree from Northwestern University and his Ph.D. from Pennsylvania State University. He and his wife live at 7363 N. Sheridan Rd.

-mmw-

news from

ILLINOIS INSTITUTE OF TECHNOLOGY

35 West 33rd Street Technology Center
Chicago 16, Illinois

FOR RELEASE: Immediate

Sarah Henley, CAlumet 5-9600
Ext. 2386

Edward E. Stafford, dean of men at the University of Illinois, was elected president of the Illinois Association of Deans and Advisers of Men at the 18th annual meeting of the Association.

Approximately 75 deans and advisers of men throughout Illinois attended the Nov. 18 meeting, held at Illinois Institute of Technology.

Other officers are: vice president, Joseph D. Boyd, dean of men at Northwestern University, and secretary, Harry S. B. Johnson, dean of men at Augustana College.

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news from

ILLINOIS INSTITUTE OF TECHNOLOGY

35 West 33rd Street Technology Center
Chicago 16, Illinois

FOR RELEASE: Immediate

Mildred Wyatt, CAlumet 5-9600
Ext. 2385

Large quantities of high-grade Brazilian iron ore concentrates will be available at a minimum production cost, a survey of the potential of itabirite ores in that country has revealed.

The survey is being conducted for the Brazilian government by the international research department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Foundation engineers, economists, and geologists are developing a research program which will provide maximum foreign exchange benefits for Brazil, according to Paul B. W. Gollong, department manager.

Vast deposits of itabirite iron ores are located in the state of Minas Gerais, Brazil, Gollong explained. Nearly pure hematite iron ore currently is being mined in the area and sold in lump form on the world market.

"The itabirite ore, a mixture of quartz and hematite, has tremendous potential," he said, "but awaits development of suitable beneficiation techniques for extensive exploitation."

In order to determine the possibility of exploiting this ore as a source of foreign exchange, the Brazilian Economic Development Council contracted ARF to evaluate the situation and propose a long-range plan.

MAILED: 11/25/57 -more-

Objectives of the research program are to:

--Develop the best process for beneficiation and agglomeration of itabirite ore.

--Determine the potential size, location, nature, and duration of world markets for itabirite ores and their derivative products.

--Determine the technical and economic feasibility of producing possible itabirite ore derivative products in Brazil.

ARF researchers presently are engaged in testing various means of beneficiating itabirite ore, according to project coordinator Nathan Federgreen. He indicted that initial results are promising because of the ore's softness, freedom from contaminating materials, and ideal crystalline structure.

Economic and market studies are proceeding concurrently with the technical work, Federgreen noted. Iron and steel companies in the United States and Europe are being contacted in this connection.

"There appears to be an excellent market for the uniformly high grade concentrate or agglomerate obtainable from itabirite," he said. "A major problem will be to locate adequate and economical marine transportation to markets. This phase of the study also is under way."

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The Foundation will make recommendations to Brazil covering a practical plan and general policy outline for long range competitive distribution and marketing of itabirite ore derivative products on the world market. Included will be a forecast of the annual long range investment requirement, profits, and foreign exchange benefits resulting from the recommended program.

Recommendations also will be made on the specific process, estimated cost of construction and operation at various levels of output, and the general area of location for ore beneficiation and agglomeration. These recommendations will be based partially on a review of domestic land transportation problems and a collection of data pertinent to the evaluation of probable routes, ports, means, and cost of transporting ore.

An on-the-spot study of geological conditions and mining procedures in the areas selected for strip mining of itabirite ores was made earlier in the year by an ARF team.

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35 West 33rd Street Technology Center
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FOR RELEASE: Immediate

Mildred Wyatt, CAlumet 5-9600
Ext. 2385

William D. Perkins has been appointed manager of public relations at Illinois Institute of Technology, it was announced by Dr. John T. Rettaliata, president.

Formerly, he was an associate editor of Popular Mechanics magazine and Westinghouse Electric Corporation regional manager of public relations, Chicago.

Perkins will be in charge of public relations for Illinois Tech and its affiliates, the Armour Research Foundation and the Institute of Gas Technology.

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news from

ILLINOIS INSTITUTE OF TECHNOLOGY

35 West 33rd Street Technology Center
Chicago 16, Illinois

FOR RELEASE: Immediate

Sarah Henley, CAlumet 5-9600
Ext. 2386

Officials for the 11th annual Illinois Tech Prep Basketball tournament were announced today by Bernard (Sonny) Weissman, Illinois Tech athletic director.

Referees will be Tom Barnicle, Ed Bronson, Ed Burke, Tom Frangella, Joe Freund, Elliott Hasan, Tommy Kouzmanoff, Cal Lepore, Paul Peterson, Bob Ryan, and Sam Swislow. All are members of the Basketball Officials Associations of Chicago.

John Boyle, athletic director of Dunbar trade school, and Anthony Maffia, Dunbar coach, will be the official scorers. Timer will be Grant Stenger, IIT instructor in physical education. Ed Glancy, Techawk basketball coach, will announce the games.

The tournament, entered last year by 40 Chicago public high schools, will again be held Dec. 20, 21, 23, 24, 26, 27, and 28, in the International Amphitheatre, 42nd and Halsted Sts. Deadline for this year's entries is 5 p.m. Monday, Dec. 9.

Pairings for the tourney will be announced by Weissman on Saturday, Dec. 14, at a luncheon for coaches, high school principals, administrative officers of the board of education, sports writers, officials, and Illinois Tech administration.

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Sarah Henley, Ext. 2386

FOR RELEASE: Immediate

Chicago--Fifteen young Indian engineers arrived in Chicago Nov. 26 to participate in a year's study of the American steel industry--just in time for an old-style Thanksgiving dinner with all the trimmings.

As part of the Indian Steel Training and Education Program (IN STEP), the men will join the first group of 32 Indian engineers who arrived in August.

The graduate engineers will start a weekly, year-long schedule of four days' training in steel production operations at Inland Steel Co., with one day of classroom work each week at Illinois Institute of Technology.

Each engineer has been invited to spend Thanksgiving Day with a Chicago family through the efforts of FOCUS (Fellowship of Overseas College and University Students).

The new group will go to the Inland Steel Co.'s Indiana Harbor plant Dec. 2, and will be welcomed at IIT by President John T. Rettaliata Thursday, Dec. 5, their first day of class.

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MAILED: 11/27/57

The project was created by a $1,500,000 grant from the Ford Foundation to assist India's vital need for trained industrial personnel. Students were hand-picked by the Indian government to study our steel industry and production first-hand. They were guaranteed jobs upon their return, and pledged to work in India's steel industry a minimum of five years.

Illinois Tech will instruct the students in socio-economic orientation, managerial training, and metallurgical science.

"We shall acquaint these engineers with our American environment; our home life, our free enterprise economy, our democratic institutions and the role of management and industrial relations in a free society," said Dr. John Day Larkin, dean of liberal studies at IIT.

Raymond D. Meade, IIT extension director, will serve as program coordinator.

Metallurgical science, with emphasis on theory, will be taught by Dr. Lucio F. Mondolfo, director of the department of metallurgical engineering at IIT.

Students will be lodged at International House, 1414 E. 59th St., where special library facilities will be made available to them.

Inland Steel Co. will indoctrinate the men in a multi-phase steel training program to give them practical experience in steel production.

Completing the program will be a one-week trip to the ore mines in Duluth, Minn. under the auspices of Illinois Tech.

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Sponsors of the program are the Ford Foundation, American Iron and Steel Institute, United Steelworkers of America, and the Indian Ministry of Iron and Steel. Participating steel companies include Bethlehem Steel Co., Inland Steel Co., Jones and Laughlin Steel Corp., National Steel Corp., Republic Steel Corp., United States Steel Corp., and Youngstown Sheet and Tube Co.

Cooperating universities are: Carnegie Institute of Technology, Case Institute of Technology, Illinois Tech, Lehigh University, and Youngstown University.

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FOR RELEASE: At Will

A new scholarship initiated by International Telephone and Telegraph Corp., New York, N.Y., at Illinois Institute of Technology, Chicago, has been awarded to an outstanding physics student.

Alfred C. Saulys, 9740 S. 90th Ave., Oak Lawn, Ill., has received the first full-tuition plus subsistence scholarship--which will presented each year to an outstanding junior or senior in the field of electrical engineering, mathematics, or physics.

The recipient was selected by the Illinois Tech scholarship committee.

Saulys, junior in physics, is the son of Mr. and Mrs. Justin Saulys. He attended St. Rita High School before coming to IIT.

He was recipient of a Freshman Competitive scholarship in 1955. Saulys also is active in the IIT Newman Club and WIIT, the campus radio station at Illinois Tech.

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OR RELEASE: Immediate

Chicago--The Techawks of Illinois Institute of Technology will open a 20-game schedule Monday, Dec. 2, against Elmhurst College in the IIT Gymnasium, 32nd and Dearborn Sts.

Four returning lettermen--bolstered by several promising freshmen cagers--will form the nucleus of the Techawk squad, according to Coach Ed Glancy.

The return of Bob Satek, 6-1, senior forward who was top scorer in last year's quintet, plus veteran guards Harry Bergendorf, 6-3, senior, and Captain Don Clifford, 6-1, senior, are expected to furnish the scoring power and finesse needed for a successful year.

At the other forward position, Ron Gallagher, 6-2 junior, is a rugged competitor. Len Subach, 6-2 junior, is expected to operate at the pivot or forward post.

Freshmen Mike Wayte, 6-4, all-south section selection from Calumet High School, and John Olin, 6-3, one of the north section's top players from Von Steuben High School, are especially promising, according to Glancy.

Jack Davis, 5-10 guard from Cleveland, O., and Don Neal, 6-2 forward from Riverside-Brookfield--both freshmen--should see quite a bit of action.

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The height problem which has plagued the Techawks in recent years could be solved by newcomers Bob Bender, 6-5 sophomore, and Dick Sulken, 6-4 sophomore. Ed Rauser, 5-10 junior, should help at the guard position.

Newcomers rounding out the squad are: Don Blume, 6-3 sophomore from Rich Twp., Park Forest, Ill., forward; Chuck Farwell, 5-6 sophomore from Hyde Park, guard; Don Kilpatrick, 6, junior from Leo, guard, and the following freshmen:

Joe Benedyk, 5-10, St. Bonaventure, Sturtevant, Wis., guard; Jack Novosel, 6, Mendel, forward; Tom Sullivan, 6-2, Leo, center, and George Truesdale, 5-10, Leo, guard.

Monday's game will be followed by a contest with the Illinois Tech Alumni Dec. 6. A series of home games will start Dec. 10 when Tech will meet Lewis College.

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OR RELEASE:

F I L L E R S

Mechanization has shortened the average weekly working hours from 70 to 40 in a hundred years, points out John T. Rettaliata, president of Chicago's Illinois Institute of Technology. Man and animal-provided energy used in production has dropped from 74 per cent in 1850 to 6 per cent in 1950.

Main medical problems associated with space travel will be solved within three to five years, according to an eminent authority on aerial medicine.

Industrial research to the tune of $14,067,534 was conducted at Armour Research Foundation of Illinois Institute of Technology, Chicago, in the 1956-57 fiscal year. More than 700 research projects for industry and government were conducted.

High marks in Russian professional schools are rewarded not only by academic honors but also by an increased government paid living allowance.

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AILED: 11/29/57

Students from 46 nations study at Illinois Institute of Technology, Chicago.

In 20 years the average engineering starting wage for graduates of Illinois Institute of Technology, Chicago, has increased by nearly 500 per cent. June '57 graduates received an average of $473 monthly.

A new vaccine for Asian flu will be released in the very near future. It is expected to give from 10 to 15 per cent more protection.

As part of its public service program, Armour Research Foundation of Illinois Institute of Technology, Chicago, periodically analyzes dustfall in the urban area.

A survey of 32,000 teenagers in the Chicago area reveals that their No. 1 interest is "clothing and personal appearance". "Science" and "politics" were far down the list.

Graduating seniors at Illinois Institute of Technology, Chicago, receive an average of 5½ job interviews from prospective employers through arrangement of the campus placement office.

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The relation between lung cancer and cigarettes has impressed physicians. Among general practitioners, 17 per cent have quit smoking, and 14 per cent cut down, as opposed to 10 per cent who have increased consumption.

Under an unusual program, 24 industrial companies are sharing in the benefits of research conducted with the country's first nuclear reactor for private industry at Armour Research Foundation of Illinois Institute of Technology, Chicago.

The cost of raising a child ranges from $390 for a 1-year-old to $782 for a 17-year-old.

Illinois Institute of Technology, Chicago, granted 596 degrees in the 1956-57 academic year, including 454 undergraduate and 142 graduate degrees.

By the time Russian students have finished 10th grade, they have had five years of physics and advanced mathematics, as well as biology and foreign languages.

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Darrell Vincent, Ext. 2384

OR RELEASE: On or After Thursday, Dec. 5, 1957

SPECIAL MONTHLY NEWS PACKET

Chicago--There's more to scientific research than meets the test tube.

For one thing, there is the problem of keeping up with what's going on in other test tubes.

The research scientist in the laboratory needs to keep well informed in his own area of research as well as related areas that might affect his work. Sometimes, he must delve as far back as 100 years into the past for information on a certain scientific item.

The great impetus given scientific research during the war caused the volume of technical literature to increase at an alarming rate, according to Mrs. Ann P. Wennerberg, acting supervisor of literature research at Armour Research Foundation of Illinois Institute of Technology.

No scientist, she said, finds himself able to cover adequately all the literature he needs to supplement the information he gains in the laboratory.

To answer this pressing need, nearly a decade ago the Foundation's chemistry and chemical engineering department formed the literature research section to search technical literature and specialized information for the laboratory scientist.

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The idea was a success. Although the literature research section still is part of the chemistry department, the specialized services of the section have been extended to all nine Foundation research departments, Mrs. Wennerberg said.

Through the searches conducted for these departments, the section keeps abreast of research in chemistry, ceramics and minerals, electrical engineering, engineering economics, international research, mechanical engineering, metals, physics, and propulsion and fluid mechanics.

The same services are provided to industrial sponsors on a direct basis--along with evaluation and interpretation of the literature, if so desired, according to Mrs. Wennerberg.

Dull? Not at all, say the six women scientists who "man" the section. In addition to traveling, they find their work less confining subjectwise than laboratory work. Also, they get to meet more people, and they encounter more variety in each day's routine.

"The search for information is not limited to the books and journals of standard libraries. Each searcher finds it necessary to confer frequently with specialized scientific personnel both in and out of the Foundation."

When all the local sources are exhausted, then the search goes out of town.

Attendance at scientific meetings and expositions is another method of gaining information, Mrs. Wennerberg added. Also, there are specialized information sources such as the Library of Congress and the U. S. Patent Office in Washington and the Armed Services Technical Information Agency in Dayton which the searchers must visit frequently for certain information.

For various research projects in almost any technical area, the literature section keeps a constant lookout for new information that may affect work already in progress.

In addition, it offers "on-the-spot" reference service, providing one-day service on answers to technical questions on a wide range of scientific topics.

When information is gathered, abstracts or summaries of all pertinent data are prepared on standard punched cards, for which coding systems can be designed on request. The abstract cards are presented to the researcher or sponsor either in the form of a file or a bound bibliography.

This system not only saves the researcher time, but also provides him with information that in many cases would have been overlooked. But in all cases, the searches are guided by the objectives of the total program, Mrs. Wennerberg said.

The many trips they've taken have led the searchers to call themselves the "flying literature section."

But whether they are flying or grounded, their ability to find information and supply it to the laboratory is providing a valuable service to science.

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Mildred Wyatt, Ext. 2385

FOR RELEASE: On or After Thursday, Dec. 5, 1957

SPECIAL MONTHLY NEWS PACKET

Chicago--A piece of piano wire in the hands of a persistant young scientist blazed the trail to a multi-million dollar industry--magnetic recording.

That young scientist is Marvin Camras, senior physicist at Armour Research Foundation of Illinois Institute of Technology, who is acknowledged as the father of modern magnetic recording.

Much of the phenomenal growth in magnetic recording is attributed to Camras' pioneer work, first started when he was a 22-year-old electrical engineering student at Armour Institute of Technology, predecessor to Illinois Tech.

Out of a maze of piano wire, coils, and tubes, Camras gave birth to the first practical wire recorder that later was to revolutionize the whole technique of sound transcription and to play a vital military role in World War II.

Camras joined the staff of Armour Research Foundation, the not-for-profit research affiliate of IIT, in 1940. Here he perfected the recorder and performed research in remote control, high-speed photography, magnetostriction oscillators, and static electricity. As a result of his investigations, the Foundation owns or controls more than 250 patents registered in the United States and 21 foreign countries.

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MAILED: 11/29/57

His inventions are used in nearly all tape and wire recorders, as well as in radio broadcasting, motion pictures, memory units for high-speed electronic computers, instrumentation, guided missiles, and a host of others.

Even the proposed Vanguard satellite is designed to use tape recorders to record information throughout its flight into outer space.

It was Camras' pioneer work in magnetic stereophonic sound that contributed to the development of sound tracks now used in Cinerama and Cinemascope.

Camras' interest in science developed early in life. At the age of five, he took apart a flashlight and mounted the parts in a cigar box to make a lantern. A few years later, he made a crude telephone--using a pillbox filled with granules of coke as a microphone--and built a wireless receiver and a spark transmission.

His magnetic recording invention had its inception in experiments he conducted to help his cousin improve his singing voice. Instead of using disc records to record his cousin's voice, Camras built a recorder using ordinary piano wire which could be erased and reused.

In 1954, Camras received the John Scott award for scientific achievement--the same honor bestowed on such notables as Thomas Edison, Orville Wright, and Madame Curie. The award was presented to Camras for his "discoveries and subsequent improvements in magnetic recording that helped skyrocket this field into a multi-million dollar annual industry."

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He also received the Illinois Tech Alumni distinguished service award in 1948 and the U.S. Camera award for contributions in picture photography in 1949.

A native of Chicago, the 41-year-old scientist now resides with his wife, two sons, and daughter in suburban Glencoe, Ill.

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Sarah Henley, Ext. 2386

FOR RELEASE: On or After Thursday, Dec. 5, 1957

SPECIAL MONTHLY NEWS PACKET

Chicago--United States housewives of the future probably will have to accept a new set of food standards when they cook.

According to Mrs. Evalyn Brinkman, associate professor of home economics at Illinois Institute of Technology, housewives will bake non-mealy potatoes and cakes as light as souffles--electronically.

"But the miracle of electronics means that the average woman will need to time cooking by minutes and seconds, judge both weight and thickness of foods, and have the patience of Job to learn to use her new piece of equipment," she says.

Electronic cooking--the speed cookery which uses high frequency microwave energy--is here to stay, said Mrs. Brinkman. Several thousand electronic ovens already have been installed in American homes, despite the almost-prohibitive cost of $1,000 to $1,350.

"And many restaurants are using electronic ovens," she added. "As the production volume increases and the cost decreases, almost anyone can own an electronic cooker."

A six-week experiment with an electronic range at Illinois Tech produced both steaks and cakes in three minutes.

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MAILED: 11/29/57

"Watch out for overcooking, though," advised Mrs. Brinkman. Even experienced home economics teachers like the IIT staff learned this the hard way.

"And I do mean hard," she said. "The first baking powder biscuits we prepared were left in the oven a second or two too long and we couldn't even break them open."

Mrs. Housewife will find that biscuits don't brown, meats don't sear, and cakes don't get golden unless an auxiliary browner is used--electronic cooking is just too fast.

"A good feature of electronic cooking--she won't be in danger of a burn from a hot oven...electronic ovens stay cool," Mrs. Brinkman added.

"The housewife of the future must be a competent judge of mass, since time for a given degree of doneness is a function of mass. Six meat patties take four times as long to cook as one," she explained.

Mrs. Brinkman cited today's prepared and frozen foods as ideal for the electronic oven. She painted a picture of the housewife who says, "Wait a second and I'll have dinner ready"--and means it!

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Darrell Vincent, Ext. 23

FOR RELEASE: Immediate

Dr. Richard Ehrlich has been appointed supervisor of biological research at Armour Research Foundation of Illinois Institute of Technology, Chicago.

He will direct research in the biology and bacteriology, and biochemistry and food technology sections of the Foundation's chemistry and chemical engineering department, according to Clark E. Thorp, manager.

A member of the ARF staff since 1952, Ehrlich has directed projects on the rapid detection of bacteria and proteins, studies of respiratory infections, sterilization of sewage, food sterilization, and public health bacteriology.

Born in Poland, Ehrlich was educated in Germany and received his Ph.D. in dairy bacteriology from Technische Hochschule, Munich, in 1949. He came to the United States the same year and served as laboratory director of the American Butter Institute until 1952.

Ehrlich is the author of numerous papers in the field of bacteriology both in the U. S. and Germany.

Married and the father of two children, Ehrlich and his family reside at 1146 W. Columbia Ave., Chicago.

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FOR RELEASE: Immediate

Eighteen Chicago public high schools have entered the Illinois Tech Prep Basketball Tournament to date, according to Bernard (Sonny) Weissman, IIT athletic director.

A total of 40 entries is expected by the entry deadline at 5 p.m. Monday, Dec. 9, when pairings will be made.

Weissman will announce the pairings on Dec. 14 at a luncheon for tournament coaches, high school principals, administrative officers of the Board of Education, sports writers, officials, and IIT administration.

The 11th annual tourney will be held Dec. 20, 21, 23, 24, 26, 27, 28 at the International Amphitheatre, 42nd and Halsted Sts.

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OR RELEASE: Immediate

Photographic works by two Chicagoans have been selected to open the American Cultural Center in Paris, France.

Harry M. Callahan and Aaron H. Siskind, both of the photography department at Illinois Institute of Technology's Institute of Design, are the sole exhibitors.

The exhibition hall, sponsored by the United States Information Service, opened Nov. 14. Purpose of the center is to feature examples of advanced work being done in all cultural fields in the U.S.

Callahan and Siskind will have 25 photos on display through Dec. 11. After the photos leave the exhibition hall in Paris, they will be sent on a tour of southern France.

Callahan, head of the photography department at the IIT design institute, is in France at the present time as one of the recipients of a Graham Foundation fellowship--the only photographer to receive such an honor.

He has been a member of the Institute of Design faculty for the past 11 years. His wife and daughter are with him in France.

Siskind, assistant professor of photography at the Institute of Design, has been on the staff since 1951. Before that time he was a commercial photographer in New York. He also has taught photography at Trenton Junior College.

12/3/57 -more-

MAILED:

Siskind is a graduate of the College of the City of New York and has done graduate work there and at Fordham and Cornell universities. Recently he was named one of three judges for a world-wide U.S. Army photography contest.

He lives at 615 N. LaSalle St.

-mmw-

from
LLINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

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For further information on this release, contact:
Sarah Henley, Ext. 2386

OR RELEASE: Immediate

Mrs. Margaret Kalb, formerly an analyst at Record Controls, Inc., has been appointed assistant registrar at Illinois Institute of Technology, Chicago.

Mrs. Kalb has surveyed various records systems and businesses for Record Controls, Inc. since 1954. Her work has included a comprehensive study of the University of Illinois' three campuses.

She has done public relations work for the National Music Camp, Interlochen, Mich., and from 1942 to 1947 she worked in personnel administration at the U.S. Maritime Commission, Washington, D.C.

She has taught English, music education, and applied music in Illinois high schools, and in grade school, high school, and college in Mississippi.

Mrs. Kalb received her bachelor's degree in education from the University of Illinois. She lives at 2116 N. Hudson Ave.

-mmw-

MAILED: 12/3/57

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For further information on this release, contact:
Sarah Henley, Ext. 2386

OR RELEASE: Immediate

More than 6,000 students are expected to participate in the eighth annual Chicago area drafting competition sponsored by Illinois Institute of Technology's technical drawing department.

Slide rules, professional drafting equipment, scholarships to Illinois Tech--over 100 prizes in all--will be awarded at an honors assembly in February, according to John T. Dygdon, contest director and assistant professor of technical drawing at IIT.

The contest is open to students from high schools and vocational schools throughout the Chicago area. Students interested in entering the contest may make application through their high shcool drafting teacher.

The contest, which opened Nov. 15, will close Jan. 29. Judges will be engineers from local industries and instructors from local colleges.

Competition will be held in five divisions, ranging from basic drafting through advanced machine drafting. Problems selected for the contest are largely from classroom projects and are associated closely with regular school work.

-mmw-

MAILED: 12/4/57

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For further information on this release, contact:
Ed O'Connell, Ext. 2384

OR RELEASE: At Will

Two instructors have been appointed to the faculty of Illinois Institute of Technology, Chicago.

They are: Garabet J. Gabriel, electrical engineering; and Lambros A. Pappas, mechanical engineering.

Gabriel, presently engaged in advanced study in communications at Illinois Tech, received his B.Sc. degree in electrical engineering from St. Louis University. He lives at 500 W. Fullerton Ave., Chicago.

Pappas, who received his bachelor's degree in mechanical engineering from IIT, is continuing study in that field. He lives at 60 E. 32nd St., Chicago.

-mmw-

MAILED: 12/5/57

from
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For further information on this release, contact:
Sarah Henley, Ext. 2306

OR RELEASE:

SPECIAL TO CHICAGO TRIBUNE

Junior and senior high school students in Chicago have an opportunity to study under some of the city's most noted artists at Illinois Institute of Technology's Insitute of Design.

A junior workshop--part of the Institute of Design's undergraduate art education program--is held every Saturday morning from 9a.m. to noon in IIT's Crown Hall, 3360 S. State St., for high schoolers interested in working creatively in art and design.

Each semester, students receive instruction and practice in visual design, photography, sculpture, painting, and drawing. They also visit such places as the Oriental Institute and the Museum of Natural History for experimental work.

Student work done in the workshop is considered for the annual Moholy-Nagy scholarships awarded to IIT design freshmen, according to Jane Goslin, instructor of art education.

Several tuition scholarships for the workshop are presented each year. Last year, 31 workshop scholarships were awarded.

Classes experiment with the possibilities of two-dimensional materials using color, texture, line, and photography, and three-dimensional materials including wire, plaster, clay, and wood. Students also design and make objects that can be seen, felt, heard, and used.

Last year's projects included experimental musical instruments made of string, glass, and various shapes and sizes of resonating chambers.

-more-

MAILED:

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Manager of Public Relations, Victor J. Danilov
Serving [illegible] Institute of Technology
[illegible]
[illegible] Institute of Technology
[illegible] Institute of Technology
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Night Phone: Skyline [illegible]
For further information on this release contact:

FOR RELEASE:

SPECIAL TO CHICAGO TRIBUNE

Junior and senior high school students in Chicago have an opportunity to study under some of the city's [illegible] artists at Illinois Institute of Technology's Institute of Design.

A junior workshop--part of the Institute of Design's [illegible] art education program--is held every [illegible] from [illegible] to [illegible] in IIT's Crown Hall, 3360 S. State St., for high [illegible] interested in working creatively in art and design.

Each semester, students receive instruction [illegible] visual design, photography, [illegible]. They also visit such places as the [illegible] Natural History for experimental work.

Student work done in the [illegible] Moholy-Nagy scholarships awarded to [illegible] Jane Goslin, instructor of art education.

Several tuition scholarships [illegible] each year. Last year, [illegible] workshop scholarships were [illegible].

Classes experiment with the [illegible] materials using color, texture, [illegible] materials including wire, plaster, [illegible]. Students [illegible] and make objects that can be seen, [illegible].

Last year's projects included experimental musical instruments made of string, glass, and various [illegible] and [illegible] of [illegible].

-[illegible]-

MAILED.

Junior workshop—add 1

The workshop was begun in 1953 as an experimental approach to various art mediums. Noted sculptor Cosmo Campoli, instructor in the foundation course at the Institute of Design, supervises instruction of the course.

Further information about the next junior workshop starting in February, may be obtained by contacting Miss Jane Goslin, Institute of Design, Technology Center, Chicago, or by telephoning CAlumet 5-9600 Ext. 469.

#

from
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For further information on this release, contact:
Sarah Henley, Ext. 2386

OR RELEASE: Immediate

A unique one-man show of paintings, drawings, and photographs will open Dec. 10 at Illinois Institute of Technology's Institute of Design.

Frederick Sommer, noted artist-photographer and visiting lecturer at the Institute of Design, will display over 200 of his works in IIT's Crown Hall, 3360 S. State St.

Formal opening of the display will be Tuesday, Dec. 10, from 3 to 6 p.m. After this time, the works will be exhibited from 9 a.m. to 9 p.m. each weekday until Jan. 17.

Sommer's fanciful and delicate line drawings depict the human body in motion. His style in these drawings is reminiscent of the ancient Indian art of calligraphy--beautiful handwriting and scrollwork incorporated in design.

His bright, emotional brush drawings on black paper--plus 16 to 20 large canvasses--will be shown. Many photographs done in Sommer's imaginative style also will be on display.

The artist has worked with subjects ranging from the Arizona plains near his home to bottles in the city dump.

Sommer believes the layman must learn that abstract art is nothing but an artist's expression of things people see every day. His photography attempts to show the viewer where to look.

-more-

MAILED: 12/5/57

His unique method of producing negatives on cellophane without using a camera, then printing them in the normal way permits extending the imaginative range of photography.

Another new technique developed by Sommer may prove to be the answer to large paintings in today's small homes. He makes a picture on overlapping sections of paper, using thinned oil, then takes the sections apart for storage.

Included in the exhibit will be works which have been shown throughout the United States, Japan, Germany, and France.

Sommer is lecturing at the Institute of Design in the absence of Harry M. Callahan, head of photography, who is in Europe on a Graham Foundation fellowship.

Sommer attended the School of Fine Arts in Brazil and received a master of landscape architecture degree from Cornell University.

-mmw-

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For further information on this release, contact:
Darrell Vincent, Ext. 2384

R RELEASE: Immediate

A unique optical system with important medical applications for observing inner workings of the human body will be described in a public lecture at Illinois Institute of Technology on Wednesday, Dec. 11.

Dr. Narinder S. Kapany, originator of the system and supervisor of optics research at IIT's Armour Research Foundation, will present "An Introduction to Fiber Optics" at a meeting of the Illinois Tech chapter of the Society of Sigma Xi.

The free lecture will be held at 8 p.m. in the IIT Chemistry Building auditorium, 33rd and Dearborn Sts.

Kapany developed the technique of using a bundle of transparent fibers to convey light and images along what appears to be a flexible rope of glass. This research evolved into a new branch of optics known as fiber optics.

The system is expected to have other applications in refractometry, astronomy, cryptography, and high speed photography. Kapany holds numerous patents and has published many papers on this and other subjects.

Kapany received graduate and post graduate training at Agra University, Imperial College, and the University of London. He was awarded a Royal Society Fellowship in 1952 to initiate research in fiber optics.

He has been a consultant to leading optical firms in India, England, and in this country.

12/6/57 -mmw-

MAILED:

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For further information on this release, contact:
Frank Judd, Ext. 2392

OR RELEASE: Immediate

Chicago--Topics ranging from space platforms to hyperbolic paraboloids will be highlighted at the third National Construction Industry Conference Dec. 11 and 12 in the Congress Hotel.

Sponsored by Armour Research Foundation of Illinois Institute of Technology, the 1957 meeting will have as its theme "creative trends in structural design."

The conference will provide an interchange of ideas to stimulate further developments in structural design, according to the chairman, Dr. Robert L. Janes, assistant manager of mechanical engineering at the Foundation.

Foremost innovators in all phases of structural design will discuss forms, materials, methods, and applications.

Walter W. Brid, the engineer responsible for the development of air-supported radomes used by the military to protect large air installations, will discuss "Air Supported Structures." Bird is president of Birdair Structures, Inc., Buffalo, N.Y.

Also featured on the program will be Felix Candela, Mexico's foremost architect-engineer-builder, who will discuss "Hyperbolic Paraboloids."

-more-

MAILED: 12/6/57

Marvin E. Goody, assistant professor of architectural design at Massachusetts Institute of Technology, will speak on experimental plastic prefabricated housing design. Goody designed the plastic house for Monsanto Chemical Co. "Developments in Dome Structures," will be discussed by Robert J. Hume, manager of development, Kaiser Aluminum and Chemical Corp.

In addition to the 15 specialists who will speak during the four conference sessions, two luncheon speakers will address the 500 architects, engineers, builders, educators, and others expected to attend.

-mmw-

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For further information on this release, contact:
Sarah Henley, Ext. 2386

R RELEASE: Immediate

Grants totaling $34,321 have been awarded to scientists at Illinois Institute of Technology, Chicago, by the National Institutes of Health, Bethesda, Md.

They were awarded to Dr. Myron L. Bender, assistant professor of chemistry, Dr. Leslie R. Hedrick, chairman of the biology department, and Dr. Myron Rosemblum, assistant professor of chemistry.

Bender received $15,589 to continue a five-year fundamental investigation of a process by which some enzymes--those substances which digest protein--act.

Enzymes are large complicated molecules whose action has been observed but never explained, he said. By studying simple chemical models--which provide clues to the workings of the more complicated enzymes--Bender hopes to explain the action of these digestive substances.

He also hopes to develop simple molecules in the test tube which act as an enzyme would.

Hedrick received $9,532 to continue a study of the loss of coliforms (indices of sewage pollution) in Lake Michigan.

Purpose of the research is to study the origin, stability, and character of toxic factors which cause a decrease in the coliform population.

-more-

12/9/57

AILED:

It is possible, Hedrick said, that these factors in stored water are responsible for the coliform loss. In a sample to be tested for bacterial purity, this would give a false estimate of the water quality.

The lack of coliforms is not a health problem in Lake Michigan water, he said, since all drinking water is chlorinated to kill any disease-producing bacteria.

However, coliform decrease has been observed in both fresh and salt water in many parts of the world and is not limited to Lake Michigan, he pointed out.

Rosenblum received $9,200 for a continuation of a three-year investigation of the basic chemistry of ferrocene and compounds related to it.

Ferrocene is a new type of organic substance containing iron which was discovered in 1952.

-mmw-

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For further information on this release, contact:
Sarah Henley, Ext. 2386

OR RELEASE: Immediate

The Fine Arts Quartette, highest-rated string ensemble in the country, will perform at Illinois Institute of Technology Saturday, Dec. 14.

The Mozart-Bartok-Beethoven concert will be held at 8:30 p.m. in the Student Union Auditorium, 47 W. 33rd St.

The quartette--Leonard Sarkin, first violin, Abram Loft, second violin, Irving Ilmer, viola, and George Sopkin, cellist--recently has returned from an engagement in Carnegie Hall, New York, N.Y.

Proceeds from ticket sales will go toward other concerts during the school year, according to the IIT Student Union Board, sponsor of the concert series.

Tickets may be purchased in the lobby of the Student Union building and will be available at the door.

-mmw-

AILED: 12/9/57

from
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For further information on this release, contact:

OR RELEASE:

Memorandum to: PHOTO EDITORS

Subject: CANDIDATES FOR ILLINOIS INSTITUTE OF TECHNOLOGY HOMECOMING QUEEN

Time and Place: 1 P.M. THURSDAY, DEC. 12, IN THE LOBBY OF CROWN HALL, 3360 S. STATE ST.

Four attractive Illinois Tech coeds are competing for the title of Homecoming Queen for the annual IIT Homecoming Dance Dec. 13.

The finalists will be available for pictures at 1 p.m. on Thursday, Dec. 12 in Crown Hall, 3360 S. State St.

The four candidates are: Zina Gefter, 1317 Greenleaf Ave., representing Kappa Phi Delta social sorority; Joann Point, 5628 S. Laflin St., independent; Barbara Rehder, 9822 S. Union Ave., Delta Zeta, and Connie Struska, 3615 S. Lombard Ave., Cicero, Sigma Kappa.

The queen will receive a large trophy, pearls, and flowers. The Homecoming Dance, sponsored by the Honor I--lettermen's honorary at Illinois Tech--will be held after the IIT-Concordia Teachers College basketball game Dec. 13 in the lounge of the Commons building, 3200 S. Wabash.

The girls eyeing the trophy enviously has good picture possibilities. You are invited to send a photographer to the picture-taking session Thursday. I will be on hand to assist.

Sarah Henley
CAlumet 5-9600
Ext. 2386

MAILED: 12/10/57

from
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For further information on this release, contact:
Sarah Henley, Ext. 2386

FOR RELEASE: At Will

Chicago--Rudolph, the red-nosed reindeer, is a potential enemy...especially if his glowing nose is placed too close to drying Christmas greenery.

"Decorative lights should be kept away from thin combustibles such as cellophane and dry wreaths of evergreen or holly," said Willis G. Labes, associate professor of fire protection and safety engineering at Illinois Institute of Technology.

"There's no such thing as being too careful or safety-minded--especially at Christmas time," he added.

Lighting always should be incandescent and indirect--in this way it is kept away from combustibles. Decorative lights should be supported firmly to prevent tipping.

However, if milady has her heart set on using candles for the table centerpiece, Labes cautions her to:

--Keep candles away from combustibles.

--Support candles firmly.

--Use fresh, moist evergreens around candles.

--Renew candles so that they cannot burn down and ignite nearby materials.

--Use common sense in locating decorations using candles--away from walking areas.

-more-

MAILED: 12/10/57

Besides the general fire hazards of overheating, overcrowding, and carelessness at Yuletide parties, Labes cites greenery and gift wrapping as potential incendiaries.

The tree should be kept moist. Since cotton batting placed around the base of the tree is as ignitable as the tree itself, Labes recommends using a non-combustible material--such as fiberglas cloth--or treating cotton cloth by dipping it in a gallon of water mixed with nine ounces of borax and four ounces of boric acid.

Trees should not be placed where they can tip over or catch fire from a fireplace, radiator, or stove.

"Although Christmas is a children's holiday, children often are exposed to more danger then than at most other seasons," Labes remarked. "Glass ornaments, lead foil wrapping, hot lights--all seem to entrance a child. And they're all dangerous."

He recommends plastic foam as relatively safe for decorative purposes.

After the gifts have been unwrapped, the paper should be disposed of immediately--out of doors in a metal can.

"Precautionary measures can save much property and even life," Labes advised. "With many electrical appliances in operation around Christmas, faults in wiring and inadequacy in circuits will show up. The time to find these faults is <u>before</u> the party."

He suggests calling a qualified electrician or an electrical inspector if there are any doubts about the wiring system adequacy.

No bare wires should be allowed. Extension cords should be placed where they will not be stumbled over.

Labes also cautioned: "Don't leave the premises for any length of time without shutting off the Christmas lights in the house. Shut them off at the source--don't leave several extension cords electrified...there may be a flaw in one of them."

Have a supply of fuses on hand, know what you would do in case of fire or other accident--and know the telephone number of the fire department, Labes concluded.

-mmw-

s from
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FOR RELEASE: Immediate

"Crime--Syndicated and Otherwise" will be the topic of the address at this month's Illinois Institute of Technology Alumni Luncheon Thursday, Dec. 12.

Benjamin Wham, a trustee of IIT, past president of the Illinois Bar Association, and former Illinois State delegate to the American Bar Association, will speak at 12:10 p.m. in the Club Room of the Chicago Art Institute.

Wham is a member of the Chicago law firm of Wham, Welch and Metzdorf, and a long-time member of the Chicago crime commission.

-mmw-

MAILED: 12/10/57

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For further information on this release, contact:
Frank Judd, Ext. 2392

OR RELEASE: PM'S, WEDNESDAY, DEC. 11

Chicago--Air supported structures--which enclose outdoor swimming pools during winter months--might some day be used to enclose space platforms in the sky.

This prediction was made here today (Dec. 11) by Walter W. Bird, the engineer who developed the air structures, at the third National Construction Industry Conference in the Congress Hotel.

The two-day meeting, sponsored by Armour Research Foundation of Illinois Institute of Technology, is being attended by more than 700 representatives of the building and related industries.

Speaking on "Air Supported Structures," the president of Birdair Structures, Inc., Buffalo, N.Y., said that many design problems must be solved, but that the air structure would have an important place in man's conquest of outer space.

The air inflated structure, he said, offers a possible way of carrying up into space a lightweight, preassembled unit which could be quickly and easily erected.

"Such structures could serve as temporary enclosures in which atmospheric pressure could be maintained to facilitate work, as observation domes on small manned satellites, or as permanent space platforms," he added.

-more-

12/10/57

MAILED:

The air structure is a uniquely different type of building constructed of a strong, thin, flexible, lightweight material, Bird explained. It is stiffened and stabilized solely by maintaining a small amount of air pressure within the unit, and requires no supporting poles or framework of any kind.

"Although light in weight and portable, it is resistant to high winds and heavy snow loads," he added.

Bird noted that the acceptance of air structures in their first application as radomes--covers to protect radar installations from foul weather--immediately led to their consideration for other military and commercial uses.

Design studies have been made, he said, for their use as portable hangars, military shelters for personnel and equipment at remote or temporary bases, and gas-tight enclosures for protection against bacteriological or radiological warfare.

Bird also pointed out commercial uses for storage or warehousing, construction shelter, carnival enclosures, stadium coverings, and enclosures for outdoor skating rinks, tennis courts and swimming pools.

In designing the structures, five important factors must be considered, Bird said. These include: knowledge of loads which will be required for the intended use, avoidance of concentrations of stress, use of materials with high test resistance, good ground anchorage, and maximum joint efficiency.

The air structure has proven to be a practical structural form for many applications, Bird said.

"Its low cost, combined with structural efficiency, adaptability for portable or temporary use, and lines that can be adapted to modern design, promise an interesting future for this new type of structure."

-mmw-

from
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For further information on this release, contact:
Sarah Henley, Ext. 2386

OR RELEASE: Immediate

Thirty-nine Chicago public high schools have entered the 11th annual Illinois Tech Prep Basketball Tournament, according to Bernard (Sonny) Weissman, Illinois Institute of Technology athletic director.

Entries closed on Monday, Dec. 9.

The tournament will be staged in the International Amphitheatre, 42nd and Halsted Sts., Dec. 20, 21, 23, 24, 26, 27, and 28.

Pairings for the preliminary and first rounds of play will be announced Dec. 14 by Weissman at a luncheon for coaches, high school principals, administrative officers of the Board of Education, sports writers, tournament officials, and IIT administration.

Schools that have entered the tournament are:

Amundsen, Austin, Bowen, Calumet, Chicago Vocational, Crane Tech, Cregier, Dunbar, DuSable, Englewood, Farragut, Fenger, Foreman, Gage Park, Harper, Harrison, Hirsch, Hyde Park, Kelly, Kelvyn Park, Lake View, Lane Tech, Lindblom, Marshall, Morgan Park, Parker, Phillips, Roosevelt, Schurz, Senn, South Shore, Steinmetz, Sullivan, Taft, Tilden Tech, Tuley, Washburne, Wells, and Westcott.

-mmw-

MAILED: 12/11/57

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For further information on this release, contact:
Sarah Henley, Ext. 2386

OR RELEASE: Immediate

New adventures in electronics will be featured in a public lecture Friday, Dec. 13, at Illinois Institute of Technology.

Cyril N. Hoyler, manager of technical relations at the David Sarnoff Research Center, RCA Laboratories, Princeton, N.J., will highlight some of the recent RCA research in the field of solid state physics, television, and acoustics.

The free lecture, sponsored by the IIT chapters of the American Institute of Electrical Engineers and the Institute of Radio Engineers, will be held at 12 noon in the Student Union auditorium, 47 W. 33rd St.

An electronic music synthesizer, capable of generating any musical tone--including tones beyond the capabilities of a human voice or conventional musical instrument--will be demonstrated.

All characteristics of the desired music are pre-set in coded form and fed into electronic circuits in any variation the mind can conceive. Using specially-built equipment, the important principles of operation will be demonstrated and several excerpts of synthesized music will be played.

Hoyler also will demonstrate light amplification by electronics, electronic refrigeration, and "Electrofax," a system of high-speed electronic photography.

-more-

AILED: 12/11/57

In the field of television, Hoyler plans to demonstrate an experimental miniaturized industrial television camera, with a total power consumption of less than five watts.

Hoyler has taught mathematics and German in Irvington, N.J., and formerly was head of the physics department of Moravian College, Bethlehem, Pa.

-mmw-

from

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For further information on this release, contact:

OR RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: "ADVENTURES IN ELECTRONICS" DEMONSTRATION AT ILLINOIS INSTITUTE OF TECHNOLOGY

Time and Place: 1 P.M. FRIDAY, DEC. 13, IN THE SECOND-FLOOR AUDITORIUM OF THE STUDENT UNION BUILDING, 47 W. 33RD ST.

Dr. Cyril N. Hoyler, manager of technical relations at the David Sarnoff Research Center, RCA Laboratories, Princeton, N.J., will demonstrate some of the recent RCA research in the fields of solid state physics, television, and acoustics at Illinois Institute of Technology Friday, Dec. 13.

The lecture is sponsored by the IIT chapters of the American Institute of Electrical Engineers and the Institute of Radio Engineers.

Hoyler will demonstrate an electronic music synthesizer, which is capable of generating musical tones which no voice or musical instrument can attain. Characteristics of the music are coded and fed into electronic circuits. Several excerpts of the music will be played.

An experimental miniaturized TV camera, an experimental light amplifier, electronic refrigeration, and "Electrofax," a system of high speed electronic photography, will be featured also.

The punched tape being fed into the huge electronic "brain" which then plays music, the tiny TV set, and the other electronic marvels provide good picture and sound possibilities.

You are invited to send a reporter/photographer at 1 p.m.--after Hoyler's lecture--in the auditorium of the Student Union building, 47 W. 33rd St. I will be on hand to assist.

Sarah Henley
CAlumet 5-9600
Ext. 2386

MAILED: 12/11/57

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FOR RELEASE: PM'S, THURSDAY, DEC. 12

Chicago--The Chicago crime syndicate was reviewed today (Dec. 12) by Benjamin Wham, long-time member of the Chicago Crime Commission, at the December Illinois Institute of Technology Alumni Luncheon.

Wham, an IIT trustee, spoke at 12 noon in the Club Room of the Chicago Art Institute.

Activities of the national crime syndicate also were discussed in Wham's presentation "Crime--Syndicated and Otherwise."

He stated that the national crime syndicate was organized in 1934 in a restaurant at 135 N. Clark St., across from the City Hall and County Building.

"New York gangsters held a meeting with top-ranking members of the Capone organization there," he added.

The insensitivity of our earlier mayors and state's attorneys and law enforcement officers to the problem of the crime syndicate was pointed out.

Wham told of the struggle the Chicago Crime Commission had in the late 1940's and early 1950's in obtaining passage of five bills by the legislature for the purpose of aiding in the fight against crime. Wham was chairman of the subcommittee which drafted these bills.

Past president of the Illinois Bar Association and former Illinois State delegate to the American Bar Association, Wham also is a member of the Chicago law firm of Wham, Welch and Metzdorf.

-mmw-

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OR RELEASE: PM'S SATURDAY, DEC. 14, 1957

Pairings for the 11th annual Illinois Tech Prep Basketball Tournament were announced today by Bernard (Sonny) Weissman, IIT athletic director, at a luncheon for tournament coaches and officials.

The tourney--largest of its kind in the nation--will have 39 Chicago public high schools competing for championship honors between Dec. 20 and 28 in the International Amphitheatre, 42nd and Halsted Sts.

Phillips, defending champion, is scheduled for its first round of play against Hirsch at 9 p.m. Dec. 23. Crane Tech, defeated last year in the final round by Phillips, will play at 4 p.m. the same day.

Dunbar and DuSable, third and fourth place winners in the 1956 tourney, both will play on Dec. 21. Dunbar is scheduled to meet the winner of the Wells-Bowen game at 9 p.m. and DuSable challenges Foreman at 4 p.m.

Preliminary games to narrow the field to 32 teams will be played between 2 p.m. and 9 p.m. on Dec. 20--every hour except 6 p.m. First round of play will be staged between 1 p.m. and 9 p.m. on Dec. 21, and from 1 p.m. and 9 p.m. on Dec. 23.

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The second round will begin at 9 a.m. on Dec. 24 and end at 4 p.m. The tourney closes down for Christmas Day; play will be resumed at 1:30 p.m. Dec. 26. Quarter-finals will be played off during the afternoon and evening of Dec. 26, and semi-finals at 7:30 p.m. and 9 p.m. Friday, Dec. 27.

The championship and third-place games have been set for 7:30 p.m. and 9 p.m. Saturday, Dec. 28.

Tickets for the tourney will be available at the Amphitheatre box office at 75 cents a session or $3 for all seven days.

The complete tourney pairings are:

PRELIMINARY ROUND

Friday, Dec. 20

2 p.m.--Cregier vs. Farragut

3 p.m.--Gage Park vs. Calumet

4 p.m.--Wells vs. Bowen

5 p.m.--Amundsen vs. Steinmetz

7 p.m.--Austin vs. Tilden

8 p.m.--Fenger vs. Sullivan

9 p.m.--Kelly vs. Harper

FIRST ROUND

Saturday, Dec. 21

1 p.m.--Taft vs. Morgan Park

2 p.m.--Englewood vs. Marshall

3 p.m.--Senn vs. Chicago Vocational

4 p.m.--Foreman vs. DuSable

5 p.m.--Westcott vs. Roosevelt

-more-

Prep pairings--add 2

7 p.m.--Parker vs. winner of Cregier-Farragut game

8 p.m.--Washburne vs. winner of Gage Park-Calumet game

9 p.m.--Dunbar vs. winner of Wells-Bowen game

Monday, Dec. 23

1 p.m.--Harrison vs. winner of Amundsen-Steinmetz game

2 p.m.--Schurz vs. winner of Austin-Tilden game

3 p.m.--Kelvyn Park vs. winner of Fenger-Sullivan game

4 p.m.--Crane vs. winner of Kelly-Harper game

5 p.m.--Lindblom vs. Lake View

7 p.m.--South Shore vs. Tuley

8 p.m.--Lane Tech vs. Hyde Park

9 p.m.--Hirsch vs. Phillips

-mmw-

ELEVENTH ANNUAL ILLINOIS TECH PREP BASKETBALL TOURNEY SCHEDULE

Friday Dec. 20

- 2 p.m. Cregier – Farragut
- 3 p.m. Gage Park – Calumet
- 4 p.m. Wells – Bowen
- 5 p.m. Amundsen – Steinmetz
- 7 p.m. Austin – Tilden
- 8 p.m. Fenger – Sullivan
- 9 p.m. Kelly – Harper

Saturday Dec. 21

- 1 p.m. Taft – Morgan Park
- 2 p.m. Englewood – Marshall
- 3 p.m. Senn – Chi. Vocational
- 4 p.m. Foreman – DuSable
- 5 p.m. Westcott – Roosevelt
- 7 p.m. Cregier/Farragut – Parker
- 8 p.m. Gage Park/Calumet – Washburne
- 9 p.m. Wells/Bowen – Dunbar

Monday Dec. 23

- 1 p.m. Amundsen/Steinmetz – Harrison
- 2 p.m. Austin/Tilden – Schurz
- 3 p.m. Fenger/Sullivan – Kelvyn Park
- 4 p.m. Kelly/Harper – Crane
- 5 p.m. Lindblom – Lake View
- 7 p.m. So. Shore – Tuley
- 8 p.m. Lane Tech – Hyde Park
- 9 p.m. Hirsch – Phillips

Tuesday Dec. 24

- 9 a.m. Taft/Morgan Park – Englewood/Marshall
- 10 a.m. Senn/Chi. Vocational – Foreman/DuSable
- 11 a.m. Westcott/Roosevelt – Cregier/Farragut/Parker
- 12 noon Gage Park/Calumet/Washburne – Wells/Bowen/Dunbar
- 1 p.m. Amundsen/Steinmetz/Harrison – Austin/Tilden/Schurz
- 2 p.m. Fenger/Sullivan/Kelvyn Park – Kelly/Harper/Crane
- 3 p.m. Lindblom/Lake View – So. Shore/Tuley
- 4 p.m. Lane Tech/Hyde Park – Hirsch/Phillips

Thursday Dec. 26

- 1:30 p.m. 9 a.m. / 10 a.m.
- 3 p.m. 11 a.m. / 12 noon
- 7:30 p.m. 1 p.m. / 2 p.m.
- 9 p.m. 3 p.m. / 4 p.m.

Friday Dec. 27

- 7:30 p.m. 1:30 p.m. / 3 p.m.
- 9:00 p.m. 7:30 p.m. / 9 p.m.

Saturday Dec. 28

- 7:30 p.m. 7:30 p.m. / 9:00 p.m.

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FOR RELEASE: Immediate

Paul R. Gouwens has joined the metals research staff of Armour Research Foundation of Illinois Institute of Technology, Chicago.

He has been named supervisor of the foundry and steelmaking section of the Foundation's metals research department, according to Robert A. Lubker, manager.

Gouwens comes to the Foundation after 17 years with the Fahralloy Co., Harvey, Ill., where he worked in several foundry and engineering departments and became chief metallurgist.

He started with the company as a student at Illinois Tech, under a cooperative work-study program, and later received a bachelor's degree in engineering from Northwestern University.

Gouwens was chairman of the technical research committee of the Alloy Casting Institute for two years, chairman of the Institute's high temperature steering committee for four years, and a member of the board of directors during 1956 and 1957.

The author or co-author of a number of technical papers on the melting of metals, Gouwens recently has been appointed vice chairman of the Electric Furnace Steel Conference of the American Institute of Mining, Metallurgical, and Petroleum Engineers for the coming year.

Married and the father of four children, Gouwens lives with his family at 15952 Louis St., South Holland, Ill.

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Mildred Wyatt, Ext. 2385

FOR RELEASE: PM Tuesday, Dec. 17, 1957

Chicago--Scientists and engineers are at fault to a large extent for the false notions held by the general public about them and about research and technology.

This opinion was expressed here today (Dec. 17) by Dr. Christopher E. Barthel, Jr., assistant director of Armour Research Foundation of Illinois Institute of Technology, in an address before the American Society of Agricultural Engineers.

"We must sell ourselves to society," the research administrator said.

"How many times have we heard the expression, 'We must get down to the lay level'," he asked. "Rather, we should get out of our shells and work ourselves up to this level."

Barthel called attention to the need to work with persons in other fields of human endeavor to earn a greater prestige than has been given to the professions in the past.

"We must act as interpreters of scientific engineering activities for the layman," he suggested.

"It is too much to expect the average layman to comprehend the complexities of modern technology," he said, "and they can only understand this technology if we can present it to them in a way that they can understand."

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Scientists and engineers must act as spokesmen for basic research, Barthel pointed out, emphasizing that basic research is the raw material from which future progress is made.

He also urged them to give personal advice and counsel on secondary education problems, stating that school authorities cannot be expected to develop an adequate program in mathematics and the sciences without such advice and counsel.

As individuals, he continued, scientists and engineers must maintain close liaison with colleges and universities.

"It is the responsibility of colleges and universities to train the type of persons required for our future growth and development," he pointed out. "We must provide them with information to permit them to handle their basic responsibility."

Calling on scientists and engineers to accept administrative responsibilities involved in the direction of research and development activities, Barthel emphasized that persons well trained in science and technology are essential to integrate properly the science and technology functions into the government, education, and industry structures.

"I recognize," he said, "that this is contrary to the beliefs of many people who feel that administrative duties for scientists and engineers means misutilization."

The time is ripe to move ahead in the shouldering of these responsibilities, he added. In dramatic fashion, the sputniks have brought about something that leaders in scientific and technological education, industry, and government long have sought to accomplish.

"They have focused wide-spread attention on the importance of science and technology in America," Barthel said, "both in national defense and the achievement of the economic potential of which we know this nation is capable."

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FOR RELEASE: Immediate

Freshmen at Illinois Institute of Technology will play host to IIT upperclassmen at a "Winter Wonderland" tobaggan run Friday, Dec. 20.

Using the Winter Wonderland facilities at Soldier Field, the festivities will begin at 7 p.m. according to Ralph Schwartz, freshman class president.

Coffee, hot chocolate, and donuts will warm up the winter sports enthusiasts in the lounge of the Commons building, 3200 S. Wabash Ave., after the tobagganing.

The not-for-profit party is the first official function of the freshman class and will serve as an all-school get-together.

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FOR RELEASE: Immediate

Chicago dustfall continued its 1957 downward trend during November.

An average of 52.5 tons of dust per square mile fell on the city during the month, a 10-ton drop from the 62.3 tons of November of last year, according to Samuel Radner, research chemical engineer at Armour Research Foundation of Illinois Institute of Technology.

The November average was more than October's average of 43.7 tons, but the increase was a normal seasonal one due to increased heating demands, Radner explained.

The Loop suffered the most during the month. After observing its cleanest month of the year during October, the downtown area doubled its low record in November. The reading was 156.3 tons per square mile, compared with 73.4 tons in October.

Radner noted that most of the factors which normally affect dustfall--such as rain, snow, temperature, and wind--remained fairly constant both this November and last.

The city's lowest reading for the month was recorded by the station at 7350 Pratt Blvd., with only 16.8 tons per square mile.

The following are station averages for November, along with their ratios to the city-wide average:

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November dustfall--add 1

Station Address	Ward No.	Total Dustfall	Ratio to City Avge.
The Fair Store	1	189.3	3.61
33 N. LaSalle St.	1	123.2	2.45
Loop Average		156.3	2.98
2135 S. Michigan Ave.	1	72.1	1.37
825 E. 44th St.	4	79.9	1.52
1362 E. 59 St.	5	45.5	.87
7531 Stony Island Ave.	7	86.5	1.65
67 W. 113th Pl.	9	27.1	.52
8858 Marquette Ave.	10	43.0	.82
2240 W. 37th St.	12	55.8	1.06
3105 W. 63rd St.	13	29.6	.46
62nd and Linder	13	37.0	.70
7559 Eggleston Ave.	17	23.3	.44
1620 W. 99th St.	19	22.7	.43
3608 Ogden Ave.	22	60.0	1.14
1340 W. Monroe St.	26	78.2	1.49
5055 Fulton St.	30	37.9	.72
1513 N. Western Ave.	32	37.6	.71
5602 Belden Ave.	36	42.0	.80
3312 Belle Plaine Ave.	40	39.2	.75
7350 Pratt Ave.	41	16.8	.32
54 W. Hubbard St.	42	66.1	1.26
551 Grant Pl.	44	39.4	.75
3532 Sheffield Ave.	46	83.6	1.59
1622 Pratt Bl.	49	27.2	.50
Average		52.5	

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FOR RELEASE: AM FRIDAY, DEC. 20

The 11th annual Illinois Tech Prep Basketball tournament opens today (Dec. 20) at 2 p.m. with a contest between Cregier and Farragut high schools.

Thirty-nine Chicago public high school teams will compete in the tournament--largest of its kind in the nation.

Other games slated for Friday's play include: 3 p.m., Gage Park vs. Calumet; 4 p.m., Wells vs. Bowen; 5 p.m., Amundsen vs. Steinmetz; 7 p.m., Austin vs. Tilden; 8 p.m., Fenger vs. Sullivan, and 9 p.m., Kelly vs. Harper.

First and second round games will take place Dec. 21 and 23. Third round games will be played Dec. 24 before the Christmas recess. Quarterfinals will be staged Thursday, Dec. 26, with semifinals Dec. 27.

Third-place and championship games will be played Saturday, Dec. 28.

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OR RELEASE: Immediate

A leadership school for members of Phi Kappa Sigma, national social fraternity, will be hosted by the Alpha Epsilon chapter at Illinois Institute of Technology Dec. 27, 28, and 29.

One hundred Phi Kappa Sigma members, including national president Albert G. Kulp of Tulsa, Okla., and past national president Arthur M. Jens, member of the IIT alumni board of trustees and past president and chairman of Chicago Federal Savings and Loan Association, will attend the seventh annual conference.

Purpose of the three-day meeting, the first held at IIT, is to provide an opportunity for interested undergraduates from Phi Kappa Sigma chapters throughout the country to meet and discuss chapter problems and projects.

Meetings will feature group discussion, with topics selected by conference-goers. A leadership school "graduation dinner" will be held Dec. 29, and diplomas will be presented to the attending members. National scholarship awards also will be given at this time.

Banquet speaker will be Charles A. Bane, Chicago lawyer and former member of the Chicago Crime Commission.

Men attending the leadership school will be housed in fraternity houses on the IIT campus.

-mmw-

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FOR RELEASE: Immediate

Chicago--A complicated mathematical process which may accelerate and complete facts of knowledge in the fields of chemistry, physics, and chemical engineering has been developed by three scientists at Illinois Institute of Technology.

Raymond Gold, IIT graduate physics student, Jerome M. Dowling, IIT postdoctoral physics fellow, and Arnold G. Meister, associate professor of physics at IIT, have spent two years evolving mathematical formulas which give values to constants that repeat themselves within several large molecules.

Previously, in order to determine a molecule's vibrational frequencies, scientists had to substitute constants from similar molecules and discover the differences in values by months of calculation and experimentation.

The new method supplies numerical values for each constant, making it possible for many molecules to be analyzed and speeding up the analyzing process.

The vibrational frequencies of a molecule lead to data regarding the molecule's thermodynamic properties. Knowledge of these properties is of great value to chemical and petroleum industries because they can be used to predict the practicality of a chemical process.

Validity of the new formulas has been tested by calculating other molecular constants which are observed with great accuracy by means of ultra-short radio waves.

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FOR RELEASE: At Will

A progress report on nuclear developments in the electric power industry will be among featured discussions at the 20th annual American Power Conference to be held at the Hotel Sherman, Chicago, on March 26-28.

Executives of a number of electric utility companies, at a forum on March 26, will describe the current status of the various nuclear reactor projects in which their companies are participating, and discuss plans for future research and development, according to Conference Director R. A. Budenholzer, professor of mechanical engineering at Illinois Institute of Technology.

The American Power Conference, which is held in Chicago each year, is sponsored by Illinois Tech in cooperation with 14 other colleges and universities and nine technical societies.

The nuclear power forum will be one of 30 sessions scheduled during the three-day meeting, which also will include a technical session on nuclear power generation.

The program will include approximately 90 papers covering a wide variety of aspects in the electric power industry and related activities. They will include addresses at luncheon meetings on each of the three days and at the All Engineers dinner on March 27.

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MAILED: 12/26/57

New and exotic propellants, such as fluorine, boron compounds, and hydrazine, economics of fuel transportation, experiences in the operation of the first commercial supercritical pressure steam electric generating station, and high voltage transmission will be among subjects to be covered. The latter will be discussed by a group of foreign scientists whose countries have had greater experience in this field than has been the case in America.

In addition, one or more sessions will be devoted to discussions of the generation, transmission, and utilization of electric energy, use of pump storage for hydro-electric stations, steam and gas turbines, industrial power plants, steam generators, and heating and air-conditioning.

The colleges and universities cooperating in the conference are Illinois, Iowa, Iowa State, Michigan, Michigan State, Northwestern, Purdue, Minnesota, Wisconsin, Texas A. & M., New York, California Institute of Technology, Georgia Institute of Technology, and Massachusetts Institute of Technology.

The cooperating societies are American Institute of Chemical Engineers, American Institute of Electrical Engineers, American Institute of Mining, Metallurgical and Petroleum Engineers, American Society of Civil Engineers, American Society of Heating and Air Conditioning Engineers, American Society of Mechanical Engineers, National Association of Power Engineers, Western Society of Engineers, and Engineers' Society of Milwaukee.

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FOR RELEASE: Immediate

Dr. William M. Langdon has been advanced to senior engineer in the chemistry and chemical engineering department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

A specialist in the development and design of chemical processes, Langdon has made many contributions to the field of distillation and production synthesis of special organic and inorganic chemicals.

Langdon joined the Foundation in 1956 as a research chemical engineer. Prior to that time, he managed his own consulting firm, Langdon & Associates, in Algonquin, Ill.

He also has served as vice president and assistant director of research at Graham, Crolley, & Associates, assistant professor of chemical engineering at the University of Illinois, and associate professor of chemical engineering at Rensselaer Polytechnic Institute.

Langdon received his B.S., M.S., and Ph.D. degrees from the University of Illinois. He is listed in Who's Who in Engineering and in the American Men of Science.

Langdon lives with his wife and two children at 1953 Cary Rd., Algonquin, Ill.

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FOR RELEASE: At Will

SPECIAL FOR YEAR-END ROUNDUP ISSUE

The need for increasing numbers of qualified engineers will continue into the predictable future, according to a leading technological educator.

Hasty interpretations of scattered reductions in employment, proclaiming the shortage of engineers to be over, could jeopardize the nation's future security and economic growth, it was reported in a year-end statement by Dr. John T. Rettaliata, president of Illinois Institute of Technology.

The requirements of national defense, the growth of population, and rapidly advancing technology will demand increased annual additions to the engineering manpower supply for many years to come, he said.

Rettaliata expressed concern that widespread publicity on limited and temporary reductions of engineering personnel could have an adverse effect on college engineering enrollments and national survival.

He pointed out that these reductions do not reflect a general trend, are only in certain localities and types of industries, and that most of them are the result of temporary cutbacks in defense contracts.

He recalled that in the period after 1950 many high school graduates were dissuaded from choosing an engineering career because of a Bureau of Labor Statistics report predicting future over-supply of engineers. This was a significant factor in causing the technical manpower shortage during most of the present decade, he said.

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Rettaliata pointed out that with the gross national product increasing at a rate three times that of the civilian labor force, a long-term, heavy demand for engineers is indicated.

The gross national product in 1965 is expected to be about one-third greater than in 1957, currently estimated at more than $400 billion, with the labor force less than 11 percent larger, Rettaliata explained.

The Illinois Tech president added that possible increases in the national defense budget, in view of the urgent necessity to outstrip Russian technology, also indicates a growing demand for engineers.

"On a national basis," Rettaliata stated, "there are more position requirements than there are engineering graduates."

"Further, a recent industry-conducted national salary and engineering requirements study showed that over half of more than 200 companies participating expected to employ more engineering graduates in 1958 than in 1957."

He added that 52 percent of the companies expected starting salaries for 1958 engineering graduates to be higher.

Rettaliata predicted increased emphasis on graduate study in the future.

"Our expanded technology of the future will require that more people receive more education," he continued.

"There will be more emphasis on graduate study to provide the necessary preparation for solving the problems resulting from new advances in science and technology.

-more-

"The badge of admission into the engineering profession will gradually move from bachelor's degrees to advanced degrees as the increasing complexity of industrial operations necessitates longer periods of preparation."

He said that in terms of educational preparation commensurate with the requirements of today's civilization, a first level college degree may be considered comparable to a high school diploma of 50 years ago.

Stressing the importance of broadening the curricula in both engineering and liberal arts colleges, Rettaliata said:

"The educational process for the engineer must encompass vastly more than the imparting of scientific knowledge and achieving technological competence. He also should be intelligently informed in other areas embracing literature, history, economics, political science, and other subjects relating to the liberal arts field."

"And, if it is important for the engineer to understand economics and the implications of history and the arts, certainly it is equally important that the student pursuing a liberal education understand some of the problems and results of science and technology, and the facts of the nation's industrial growth."

He added that broadening the engineering curriculum in the fields of the humanities and social sciences has been a major development in technological education.

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